**Name: _____ Sec: ____ Roll No.: ____**

**CODE-A**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : [2024-2025]**
**ENGLISH**
**Class – XII**

**Time: $1\frac{1}{2}$ Hrs.** **Maximum Marks: 40**

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***GENERAL INSTRUCTIONS:***

1. *The Question Paper contains questions from LITERATURE and WRITING sections.*
2. *Attempt questions based on specific instructions for each part.*

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1. **Read the extract given below and answer the questions that follow:** 1X 3

*I saw my mother,/beside me,*

*doze, open mouthed, her face*

*ashen like that/ of a corpse and realised with*

*pain/ that she was as old as she/ looked but soon…*

(a) Why was the poet pained?

i. Her mother's face was ashen like that of a corpse.

ii. She was as old as she looked.

iii. She feared the loss of her mother.

iv. All of the above.

(b) The word 'corpse' evokes the image of –

i. death

ii. eternity

iii. transience

iv. All of the above

(c) What happened '*soon…*'after?

2. **Read the extract given below and answer the questions that follow:** 1X 3

*I had counted on the commotion to get to my desk without being seen; but, of course, that day everything had to be as quiet as Sunday morning. Through the window I saw my classmates, already in their places, and M. Hamel walking up and down with his terrible iron ruler under his arm.*

(a) What *commotion* did Franz count upon?

i. the opening and closing of desks

ii. lessons repeated in unison, very loud

iii. the teacher's great ruler rapping on the table

**iv.** All of the above

(b) Why had Franz to *count on the commotion*?

i. He was late to school

ii. He wanted to avert the teacher's attention from him.

iii. He was not ready with his lessons.

iv. All of the above.

(c) Why was '*that day everything had to be as quiet as Sunday morning.*'?

3. **Read the extract given below and answer the questions that follow:** 1X 4

*From that day onwards it was celebration time for all the tigers inhabiting Pratibandapuram. The State banned tiger hunting by anyone except the Maharaja. A proclamation was issued to the effect…*

(a) The figure of speech used in '*celebration*' is –

i. Sarcasm
ii. Irony
iii. Wit
iv. Humour

(b) "*From that day…*" The day was –

i. when the Statecame into Tiger King's hands
ii. when the Tiger King killed his first tiger.
iii. when the Tiger King heard of the astrologer's prediction.
iv. All of the above.

(c) The proclamation issued was _____. **(Complete the statement)**

(d) What does the extract tell of the *Maharaja's* nature?

4. **Attempt the following questions in 40-50 words each.** 2 X 5

(a) "*What I want should not be confused…*" What should not be confused with?

(b) What, according to the poet, drives away sadness from human lives? *(A Thing of Beauty)*

(c) What does Franz mean when he says: "*Will they make them sing in German, even the pigeons*"?

(d) How did the Tiger King celebrate his victory over the killing of the hundredth tiger?

(e) What is the significance of the parting words of the poet and her smile in '*My Mother at Sixty-six'*?

5. **Attempt *ANY 02* of the following questions in 120-150 words:** 5 X 2

(a) *'Saheb and Mukesh are brothers in penury and suffering.'* Discuss.

(b) *Desire, determination and diligence lead to success*. Explain the value of these qualities in the light of Douglas' experience in "*Deep Water*".

(c) "*The note is signed Sam*". What do you infer from Sam's letter to Charley?

6. You are the Physical Education Instuctor of Happy Learning School, Krishnanagar. Draft a **notice** in about 50 words inviting 4

participation from students for the Summer Camp to be held in your school between 18 May and 25 May, 2024. Mention relevant details.

7. You are Sumit / Ridhima, a student of Class XII, Indus Valley World School. You see and feel that students are required to cope up with a lot of stress in today's competitive environment. Write a letter to the Editor of The Telegraph highlighting the increasing stress faced by students and suggesting ways and means to combat it for successful living. (*120-150 words*) 6

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE- B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**

**PERIODIC TEST-1 : [2024-2025]**

**ENGLISH**

**Class – XII**

**Time: $1\frac{1}{2}$ Hrs.** **Maximum Marks: 40**

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***GENERAL INSTRUCTIONS:***

1. *The Question Paper contains questions from, LITERATURE and WRITING sections.*
2. *Attempt questions based on specific instructions for each part.*

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**1. Read the poem extract and answer the questions that follow. 1x3**

And looked out at Young
Trees sprinting, the merry children spilling
out of their homes, but after the airport's
security check, standing a few yards
away, I looked again at her, wan, pale
as a late winter's moon and felt that old
familiar ache …

i. Why has the poet brought in the image of "merry children spilling out of their homes"?

ii. Choose the option that appropriately describes the relationship between the two statements given below.

**Statement 1:** The poet knows her mother has aged.
**Statement 2:** The poet feels the pain of separation.

a. Beginning – Ending
b. Cause – Effect
c. Question – Answer

d. Introduction – Conclusion

iii. Choose the option that completes the sentence given below.

Just as the brightness of the winter's moon is veiled behind the haze and mist, similarly

a. the pain of separation has shaded mother's expression.
b. age has fogged mother's youthful appearance.
c. growing up has developed a seasoned maturity in the poet.
d. memories warm the heart like the pale moon in winter.

**2. Read the prose extract and answer the questions that follow. 1x3**

Poor man! It was in honour of this last lesson that he had put on his fine Sunday clothes, and now I understood why the old men of the village were sitting there in the back of the room. It was because they were sorry, too, that they had not gone to school more. It was their way of thanking our master for his forty years of faithful service and of showing their respect for the country that was theirs no more.

i. Why does the narrator refer to M. Hamel as 'Poor man!'?

ii. Which of the following idioms might describe the villagers' act of attending the last lesson most accurately?
a. 'Too good to miss'
b. 'Too little, too late'
c. 'Too many cooks spoil the broth'
d. 'Too cool for school'

iii. Choose the option that might raise a question about M. Hamel's "faithful service".
a. When Franz came late, M. Hamel told him that he was about to begin class without him.
b. Franz mentioned how cranky M. Hamel was and his "great ruler rapping on the table".
c. M. Hamel often sent students to water his flowers and gave a holiday when he wanted to go fishing.
d. M. Hamel permitted villagers put their children "to work on a farm

or at the mills" for some extra money.

**3. Read the prose extract and answer the questions that follow. 1x4**

The Maharaja and the dewan held deliberations over this issue. As a result, a telegram was 3despatched forthwith to a famous British company of 3jewellers in Calcutta. 'Send samples of expensive diamond rings of different designs.'

i On which issue the Maharaja and the dewan were tensed?

ii To whom the rings were gifted?

iii How many rings were received from the company?

a. Thirty
b. Forty
c. Fifty
d. Hundred

iv The synonym of the word 'deliberation' is

a. Debate
b. Argument
c. Discussion
d. Speech

**4. Answer the following questions given below in 40-50 words each. 2x5**

i Which symbol from nature does the poet invoke to say that there can be life under apparent stillness?
(*Keeping Quiet*)

ii What does Keats consider an endless fountain of immortal drink and why does he call its drink immortal?
(*A Thing of Beauty*)

iii What words did M. Hamel write on the blackboard before dismissing the last class? What did they mean?

(*The Last Lesson*)

iv Who actually killed the hundredth tiger? Why?
(*The Tiger King*)

v What do the parting words of the poet and her smile signify?
(*My Mother at Sixty-Six*)

**5. Answer the following questions given below in 120-150 words each. 5x2**
**(<u>Attempt any 2</u>)**

i Describe the difficulties that the bangle makers of Firozabad face in their lives.
(*Lost Spring*)

ii Which two incidents in Douglas's early life made him scared of water?
(*Deep Water*)

iii Describe briefly the scene at the third level of Grand Central as seen (or seemed to be seen) by Charley.

**6.** You are the Secretary of Residents' Welfare Association of Sahyog Colony, Delhi. Write a notice, in not more than 50 words, informing the residents of the colony that there will be no water supply in their area for about a day due to maintenance work. **4**

**7.** The youth of the country are very vigilant these days and feel concerned about the problems being faced by the people. Write a letter to the Editor of a national daily urging him to highlight the role of the youth in eradicating the problems of poverty, unemployment and corruption. You are Akash / Akansha of 15 Middleton Street, Kolkata. **6**

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE-A**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : [2024-2025]**
**MATHEMATICS**
**CLASS - XII**

**Time: $1\frac{1}{2}$ Hrs.** **Maximum Marks: 40**

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***General Instructions:***

*1. This question paper contains – **five sections** A, B, C, D and E. Each section is compulsory. However, there are internal choices in some questions.*

*2. **Section A** has 18 **MCQ's and 02**Assertion – Reason based questions of 1 mark each.*

*3. **Section B** has 02 **Case Based (CBQ) – type** questions of 4 marks each with sub parts*

*4. **Section C** has 02**Short Answer (SA) – type** questions of 2 marks each.*

*5. **Section D** has 01**Long Answer (LA-I) – type** questions of 3 marks.*

*6. **Section E** has 01 **Long Answer (LA-II) – type** question of 5 marks.*

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## SECTION - A
**(Multiple Choice Questions)**
**Each question carries 1 mark.**

1. Let R be the relation on the set N given by R = {(a, b): a = b – 2, b > 6}. Choose the correction option: 1
   (a) (2, 4) ∈ R
   (b) (3, 8) ∈ R
   (c) (6, 8) ∈ R
   (d) (8, 7) ∈ R

2. Let A = {1, 2, 3}. Then the number of relations containing (1, 2) and (1, 3) which are reflexive and symmetric but not transitive is: 1
   (a) 1
   (b) 2
   (c) 3
   (d) 4

3. If $R = \{(x, y): x, y \in Z, x^2 + y^2 \leq 5\}$ is a relation on Z, then the domain of R is: 1
   (a) {0, 1, 2}
   (b) {0, -1, -2}
   (c) {-2, -1, 0, 1, 2}
   (d) None of the above

4. If A = {1, 3, 5, 7} and B = {2, 3, 7, 11, 15}, then the number of functions from A to B is: 1
   (a) $(4)^5$
   (b) $(5)^4$
   (c) 5! 4!
   (d) None of the above

5. If the function f: R → A given by $f(x) = \frac{x^2}{x^2+1}$ is onto, then A is equal to: 1
   (a) [0, 1)
   (b) [0, 1]
   (c) (0, 1]
   (d) (0, 1)

6. Let A = {1, 2, 3, 4} and B = {a, b, c}, then the number of functions from A to B which are not onto is: 1
   (a) 8
   (b) 16
   (c) 45
   (d) 6

7. If A and B are two symmetric matrices of the same order, then AB – BA is: 1
   (a) Skew – symmetric matrix
   (b) Symmetric matrix
   (c) Null matrix
   (d) Identity matrix

8. If $A = \begin{bmatrix} \cos\alpha & -\sin\alpha \\ \sin\alpha & \cos\alpha \end{bmatrix}$ and $A + A^T = I$, then $\alpha$ is: 1
   (a) π/6
   (b) π/3
   (c) π
   (d) 3π/2

9. If $A = \begin{pmatrix} 1 & 1 \\ 1 & 1 \end{pmatrix}$ then $A^{100}$ is equal to: 1

(a) $2^{100}A$
(b) $2^{99}A$
(c) 100A
(d) 299

10. If $E(\alpha) = \begin{bmatrix} \cos\alpha & \sin\alpha \\ -\sin\alpha & \cos\alpha \end{bmatrix}$, then the value of $E(\alpha)$. $E(\beta)$ = 1

(a) $E(\alpha\beta)$
(b) $E(\alpha+\beta)$
(c) $E(\alpha-\beta)$
(d) E(0)

11. If the points (-1, 4), (-3, 8), (-k + 1, 3k) are collinear, then the value of k is: 1

(a) 0
(b) 2
(c) 1
(d) -2

12. If the points (a, 0), (0, b), (3a, y) are collinear then the value of y is: 1

(a) 2a
(b) -2a
(c) 2b
(d) -2b

13. If the function $f(x) = \begin{cases} 5x-4, 0<x\leq 1 \\ 4x^2+3bx, 1<x\leq 2 \end{cases}$ is continuous at x = 1, then the value of b is: 1

(a) 1
(b) 0
(c) -1
(d) 2

14. For the function $f(x) = \frac{\log(1+x)-\log(1-x)}{x}$ to be continuous at x = 0, the value of f(0) should be: 1

(a) -1
(b) 0
(c) -2
(d) 2

15. If $y = 1 - x + \frac{x^2}{2!} - \frac{x^3}{3!} + \frac{x^4}{4!} - \ldots\ldots$ then $\frac{d^2y}{dx^2}$ is equal to: 1

(a) x
(b) – x
(c) –y
(d) y

16. If $f(x) = (1 + x)^n$, then the value of $f(0) + f'(0) + \frac{1}{2!} f''(0) + \ldots\ldots + \frac{1}{n!} f^n(0) =$ 1

(a) n
(b) $2^n$
(c) $2^{n-1}$
(d) 4

17. If $y = \sqrt{\tan x + \sqrt{\tan x + \sqrt{\tan x + \ldots}}}$ then $\frac{dy}{dx}$ is equal to: 1

(a) $\frac{sec^2 x}{2y-1}$
(b) $\frac{sec^2 x}{2x-1}$
(c) $\frac{sec^2 y}{2y-1}$
(d) $\frac{sec^2 y}{2x-1}$

18. If $y = \tan^{-1}\frac{2^x}{1+2^{2x+1}}$ then $\frac{dy}{dx}$ at x = 0 is: 1

(a) log 2
(b) 3 log 2
(c) $\frac{3}{5}$log 2
(d) None of the above

## ASSERTION – REASON BASED QUESTIONS

19. **Assertion:** if n(A) = 5, n(B) = 5 and f: A → B is one – one then f is a bijection 1
**Reason:** if n(A) = n(B) then every one – one function from A to B is onto.
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

20. **Assertion:** $f(x) = |x-1| + |x-2|$ is continuous but not differentiable at x = 1, 2. 1
**Reason:** Every differentiable function is continuous.
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is true but R is false.

(d) A is false but R is true.

## SECTION – B

**This section comprise of Case Based type – questions (CBQ) of 4 marks each.**

21. The relation R on the set A = {1, 2, 3, 4, 5} is given by R = {(a, b): $|a-b|$ is even}.

Based on the above information answer the following questions:

(a) Show that R is reflexive. 1

(b) Show that all the elements of {1, 3, 5} are related to each other and all the elements of {2, 4} are related to each other. 1

(c) Show that no element of {1, 3, 5} is related to any element of {2, 4}. 2

**OR**

Find the equivalence class of [2]

22. An amount of Rs. 50, 000 is put into three investments at the rate of interest 6%, 7% and 8% per annum respectively. The total annual income is Rs. 3,580. The combined income from the first two investments is Rs. 700 more than the income from the third.

Based on the above information, answer the following questions:

(a) Write the given information in matrix form AX = B 1

(b) Find $|A|$ 1

(c) Find adj (A) 2

**OR**

Find $|adj(A)|$

## SECTION – C

**This section comprise of Short Answer type – questions (SA) of 2 marks each.**

23. Show that the function f: R → R: $f(x) = \begin{cases} 1, if\ x\ is\ rational \\ -1, if\ x\ is\ irrational \end{cases}$ is neither one – one nor onto. 2

**OR**

Show that the function f: R → R: f(x) = [x] is neither one – one nor onto. (where [.] denotes greatest integer function of x)

24. If $f(x) = \begin{cases} \frac{2^{x+2}-16}{4^x-16}, if\ x \neq 2 \\ k, if\ x = 2 \end{cases}$ is continuous at x = 2, then find the value of k. 2

## SECTION – D

**This section comprise of Short Answer type – questions (SA) of 3 marks.**

25. Let f(x) = ¿is continuous at x = π/2, then find the values of a and b. 3

**OR**

Find the values of a and b so that the function f(x) is continuous at x = 3 and x = 5

$f(x) = \begin{cases} 1, if\ x \leq 3 \\ ax + b, if\ 3 < x < 5 \\ 7, if\ x \geq 5 \end{cases}$

## SECTION – E

**This section comprise of Long Answer type – questions (LA) of 5 marks.**

26. If $y = (x\sqrt{x^2+1})^m$, then show that $(x^2 + 1)\frac{d^2y}{dx^2} + x\frac{dy}{dx} - m^2y = 0$. 5

**OR**

If $(x - a)^2 + (y - b)^2 = c^2$, then prove that ¿¿¿is a constant independent of a and b.

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE-B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : [2024-2025]**
**MATHEMATICS**
**CLASS - XII**

**Time: $1\frac{1}{2}$ Hrs.** **Maximum Marks: 40**

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***General Instructions:***

*(i)* *All the questions are compulsory.*
*(ii)* *This question paper is divided into five sections: A, B, C, D and E*
*(iii)* *Section A contains 18 MCQ's and 2 Assertion-Reason based question of 1 mark each.*
*(iv)* *Section B has 2 case-based of 4 marks each with sub parts.*
*(v)* *Section C contains 2 SA type(1) questions of 2 marks each.*
*(vi)* *Section D contains 1 SA type(II) questions of 3 marks each.*
*(vii)* *Section E contains 1 LA type questions of 5 marks each*
*(viii)* *Internal choice has been provided in 1 question of 2 marks, 1 for 3 marks, 1 for 5 marks.*

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## SECTION- A

1. If R = $\{(x, y): x+2y=8\}$ *is a relation on a set of natural numbers, then range of R is* 1
   (a) $\{3,4,5\}$ $(b)\{3,1,2\}$ $(c)\{1,4,5\}$ $(d)\{2,4,5\}$
2. Let R = {(3,1), (1,3), (3,3)} be a relation on set A = {1,2,3}. Then relation R is: 1
   (a) Equivalence relation
   (b) Symmetric, transitive but not reflexive
   (c) Neither reflexive, nor transitive, only symmetric
   (d) None of these
3. Let R be a relation over the set of natural numbers defined by R = {(a, b) : a, b ∈ N and a > b} then R is 1
   (a) Reflexive (b) symmetric
   (c) transitive (d) an equivalence relation.
4. Let $f: R \to R$ *defined by* $f(x)=2+x^2$ .choose the correct answer 1
   (a) $f$ is not one-one
   (b) $f$ is one-one
   (c) $f$ is not onto
   (d) $f$ is neither one- one nor onto
5. Let N be the set of natural numbers and the function $f: N \to N$ be defined 1

**Name: _____ Sec: ____ Roll No.: ____**

**CODE : A**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : [2024-2025]**
**PHYSICS**
**CLASS : XII**

**Time: $1\frac{1}{2}$ Hrs.** **Maximum Marks: 40**

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***General Instructions:***

*(1) There are 21 questions in all. All questions are compulsory.*
*(2) This question paper has five sections: Section A, Section B, Section C, Section D and Section E.*
*(3) All the sections are compulsory.*
*(4) Section A contains twelve questions, nine MCQs and three Assertion Reasoning based of 1 mark each, Section B contains three questions of two marks each, Section C contains three questions of three marks each, Section D contains two case study based questions of four marks each and Section E contains one long answer question of five marks.*

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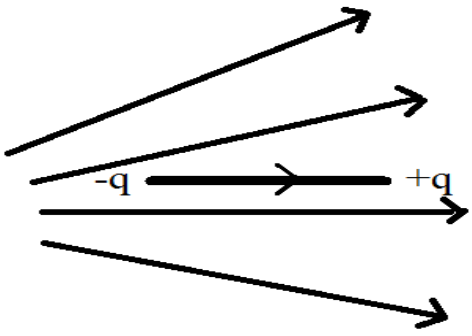
## SECTION : A

1. Fig. shows electric field lines in which an electric dipole is placed. Which of the following statement is correct? 1



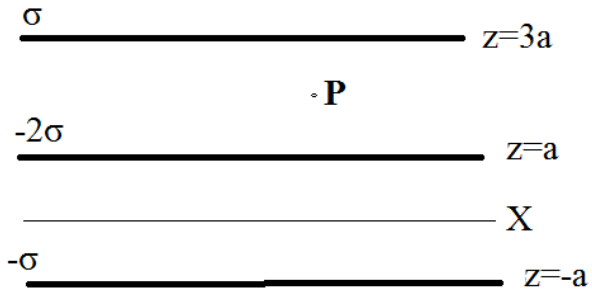

(a) The dipole will not experience any force
(b) The dipole will experience a force towards right
(c) The dipole will experience a force towards left
(d) The dipole will experience a force upward

2. A point charge q is placed at a distance a/2 directly 1

above the center of a square of side a. The electric flux through the square is

(a) $q/\varepsilon_0$
(b) $q/\pi\varepsilon_0$
(c) $q/4\varepsilon_0$
(d) $q/6\varepsilon_0$

3. Three infinitely long charge sheets are placed as shown in figure. The electric field at P is 1




(a) $2\sigma/\varepsilon_0\hat{k}$
(b) $-2\sigma/\varepsilon_0\hat{k}$
(c) $4\sigma/\varepsilon_0\hat{k}$
(d) $-4\sigma/\varepsilon_0\hat{k}$

4. An electric dipole is formed by two equal and opposite charges q with separation d. The charges have same mass m. It is kept in a uniform electric field E. It is slightly rotated from its equilibrium orientation then its angular frequency ω is 1

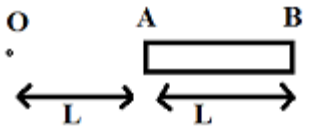
(a) $\sqrt{(2qE)/md}$
(b) $\sqrt{(qE)/2md}$
(c) $2\sqrt{(qE)/md}$
(d) $\sqrt{(qE)/md}$

5. The bob of a simple pendulum has a mass of 2g and a charge of 5μC. It is at rest in a uniform electric field of intensity 2000V/m. At equilibrium the angle that the 1

pendulum makes with the vertical is ($g=10m/s^2$)

(a) $\tan^{-1}(5.0)$
(b) $\tan^{-1}(2.0)$
(c) $\tan^{-1}(0.5)$
(d) $\tan^{-1}(0.2)$

6. A charge Q is uniformly distributed over a long rod AB of length L as shown in figure. The electric potential at the point O lying at a distance L from end A is: 1




(a) $Q/8\pi\varepsilon_0 L$
(b) $3Q/4\pi\varepsilon_0 L$
(c) $Q/4\pi\varepsilon_0 L\ln 2$
(d) $Q\ln 2/4\pi\varepsilon_0 L$

7. A charge Q is distributed over two concentric conducting thin spherical shells radii r and R(R>r). If the surface charge densities on the two shells are equal, the electric potential at the common centre is: 1

(a) $k\, Q(R+r)/(R^2+r^2)$
(b) $k\, Q(R+2r)/2(R^2+r^2)$
(c) $k\, Q(R+r)/2(R^2+r^2)$
(d) $k\, Q(2R+r)/(R^2+r^2)$

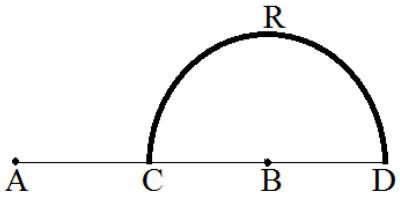
where $k = 1/4\pi\varepsilon_0$

8. In a parallel plate capacitor the distance between the plates is d and potential difference across the plates is V. Energy stored per unit volume between the plates of capacitor is 1

(a) $Q^2/2V^2$
(b) $\varepsilon_0 V^2/2d^2$
(c) $V^2/2\ \varepsilon_0 d^2$
(d) $\varepsilon_0 V^2/2d$

9. Charges +q and –q are placed at points A and B respectively which are a distance 2L apart. C is the midpoint between A and B. The work done in moving a 1

charge +Q along the semicircle CRD is




(a) $qQ/2\pi\varepsilon_0 L$
(b) $qQ/6\pi\varepsilon_0 L$
(c) $-qQ/6\pi\varepsilon_0 L$
(d) $qQ/4\pi\varepsilon_0 L$

**For Questions 10 to 12, two statements are given – one labelled Assertion (A) and other labelled Reason (R). Select the correct answer to these questions from the options as given below.**
**a) If both Assertion and Reason are true and Reason is correct explanation of Assertion.**
**b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.**
**c) If Assertion is true but Reason is false.**
**d) If both Assertion and Reason are false.**

10. **Assertion (A):**In a non-uniform electric field a dipole will have translatory as well as rotatory motion 1
**Reason (R):** In non-uniform field a dipole experiences a force as well as torque.

11. **Assertion (A):** Electric field is always normal to equipotential surfaces and along the direction of decreasing order of potential. 1
**Reason (R):**Negative gradient of electric potential is electric field.

12. **Assertion (A):**A metallic shield in the form of a hollow shell may be built to block an electric field. 1
**Reason (R):** In hollow spherical shield the electric field inside it is zero at every point.

## SECTION : B

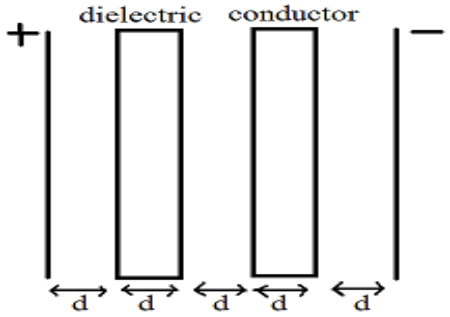
13. Plot a graph showing the variation of Coulomb's force (F) vs $(1/r^2)$ where r is the distance between the two charges for each pair of charges (1μC,2μC) and (2μC,-3μC). Interpret the graphs obtained. 2

14. Two charges q and -3q are placed fixed on x axis separated by distance d. Where a third charge 2q should be placed such that it will not experience any force. 2

15. A 600pF capacitor is charged by a 200V supply. It is then disconnected from the supply and is connected to another uncharged 600pF capacitor. How much electrostatic energy is lost in this process? 2

## SECTION : C

16. Given two parallel conducting plates of area A and charge densities +σ and –σ. A dielectric slab of constant K and a conducting slab of thickness d each are inserted between them. 3

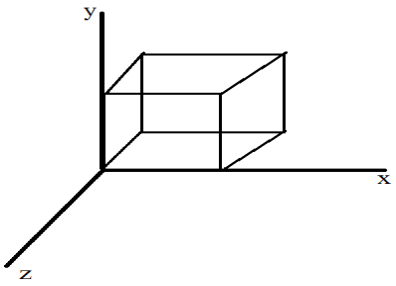



(a) Find the potential difference between the plates

(b) Plot E verses x graph taking x=0 at positive plate and x=5d at negative plate.

17. A cube of side L is kept in space as shown in figure. An electric field $\vec{E} = (Ax + B)\hat{i}$ N/C exist in the region. Find 3

the net enclosed charge.




18. Three concentric metallic shells A, B and C of radii a, b and c (a<b<c) have surface charge densities +σ,-σ and +σ respectively. If shells A and C are at same potential then obtain the relation between a, b and c. 3

## SECTION-D

### Case Study Based Questions

Read the following paragraph and answer the questions that follow.

19. An equipotential surface is the surface with a constant value of potential at all points on the surface. Equipotential surfaces of a single point charge are concentric spherical surfaces centered at the charge. Electric field lines for a single charge q are radial lines starting from or endingat the charge depending on whether q is positive or negative. 4

(i) Equipotentials at a great distance from a collection of charges whose total sum is not zero are approximately

(a) Spheres
(b) Planes
(c) Paraboloids
(d) Ellipsoids

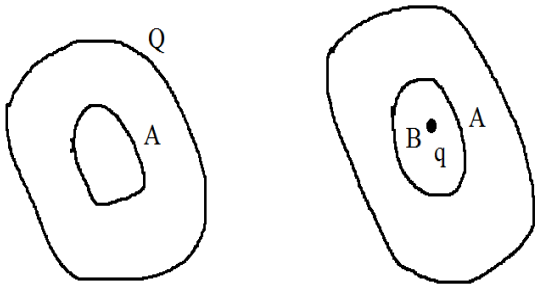
(ii) Between any two points on the equipotential surface there is no

(a) Voltage
(b) Work
(c) Potential difference
(d) Work and potential difference

(iii) For uniform electric field E say along x axis the equipotential surfaces are planes
(a) Normal to y axis
(b) Normal to z axis
(c) Normal to x axis
(d) Normal to x-y axis

(iv) Direction of electric field on equipotential surface is always
(a) Parallel to the surface
(b) At an angle of $45^0$ to the surface
(c) Normal to the surface
(d) At an angle of $30^0$ to the surface

20. A conductor A with a cavity as shown in figure is given a charge Q. Another conductor B with charge q is inserted into the cavity keeping B insulated from A 4




(i) The entire charge must appear
(a) Anywhere on the sphere
(b) On the outer surface of conductor
(c) Inside the conductor
(d) None of these

(ii) Total charge on the outer surface is
(a) Q

(b) q
(c) Q + q
(d) Q – q

(iii) Electric field inside the cavity is
(a) Q/r
(b) q/r
(c) zero
(d) None of these

(iv) Inside the cavity the value of potential is
(a) Zero
(b) Same as that of the surface of the conductor
(c) Same as that of the outer surface of the conductor
(d) None of these

## SECTION : E

21. An early model for an atom considered it to have a positively charged point nucleus of charge Ze, surrounded by a uniform density of negative charge up to a radius R. The atom as a whole is neutral. For this model, what is the electric field at a distance r from the nucleus? 5

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE : B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : [2024-2025]**
**PHYSICS**
**CLASS : XII**

**Time: $1\frac{1}{2}$ Hrs.** **Maximum Marks: 40**

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***General Instructions:***

*(1) There are 21 questions in all. All questions are compulsory.*
*(2) This question paper has five sections: Section A, Section B, Section C, Section D and Section E.*
*(3) All the sections are compulsory.*
*(4) Section A contains twelve questions, nine MCQs and three Assertion Reasoning based of 1 mark each, Section B contains three questions of two marks each, Section C contains three questions of three marks each, Section D contains two case study based questions of four marks each and Section E contains one long answer question of five marks.*

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## Section : A

**Question 1 to 9 are multiple choice type question, choose correct option.**

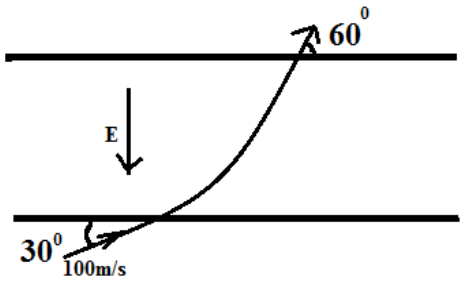
Q1. A charge Q is placed at each of the opposite corners of a square. A charge q is placed at each of the other two corners. If net electrical force on charge Q is zero, then ratio of Q/q is : **(a) -1/**$\sqrt{2}$ **(b)-2**$\sqrt{2}$ **(c) -1 (d)1** 1

Q2. A charge particle $q_1$ is located at position (2,-1,3), electrostatic force on other charge $q_2$ placed at (0,0,0) is : 1

**(a)** $\frac{q_1 q_{2(2i-j+3k)}}{56\pi\varepsilon^\circ}$ **(b)** $\frac{q_1 q_{2(-2i+j-3k)}}{56\sqrt{14}\pi\varepsilon^\circ}$

**(c)**$\frac{q_1 q_{2(i-2j-3k)}}{56\pi\varepsilon^\circ}$ **(d))**$\frac{q_1 q_{2(i-2j-3k)}}{56\sqrt{14}\pi\varepsilon^\circ}$

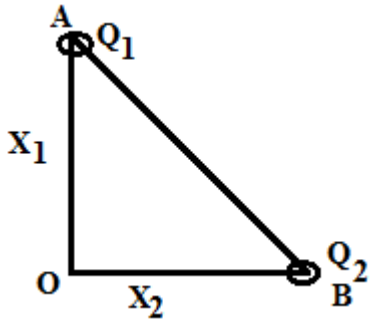
Q3. 1




Find the magnitude of electrical field E in N/C if an electron entering with velocity 100m/s at an angle of 30° comes out making an angle of 60° after time of m/e seconds.

**(a) 100N/C (b)10N/C (c) 20N/C (d)200N/C**

Q4. 1




Charges $Q_1$ and $Q_2$ are at points A and B of a right angled triangle OAB. The resultant electric field at O is perpendicular to hypotenuse AB , then ratio of $Q_1/Q_2$ is :

**(a)$(x_1)^3/(x_2)^3$ (b)$(x_2)/(x_1)$ (c) $(x_1)/(x_2)$ (d) $(x_1)^2/(x_2)^2$**

Q5. Identical charges **-48($\frac{5}{4}$ -$\frac{1}{\sqrt{3}}$)** micro Coulomb are located at vertices of a regular hexagon. What charge must be placed at the centre of hexagon, to set the whole system of charges in equilibrium? 1

**(a)59micro Coulomb (b)29micro Coulomb**
**(c)39micro Coulomb (d)49microCoulomb**

Q6. There exist uniform electric field in space. The electric field is parallel to XY plane. The potential of points A(2,2) , B(-2,2) and C(2,4) are 4V,16V and 12v respectively. Then electric field is 1

**(a) (4i+5j) (b) (4i-5j) (c) (3i-4j) (d) (3i+2j)**

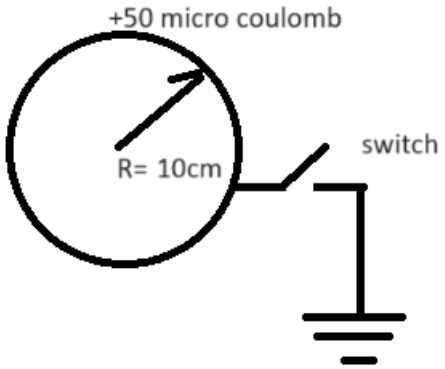
Q7. An infinite non conducting sheet has surface charge density of $10^{-7}C/m^2$. The separation between two equipotential surfaces near the sheet whose potential differ by 5v is 1

**(a)0.88cm (b)0.88mm (c)0.88m (d)$5x10^{-7}$m**

Q8. The electrical field intensity at a point at a distance 2m from a point charge is 4N/C. The amount of work done by external agent in slowly bringing a charge of 2C from infinity to this point is 1

**(a) 4J (b)8J (c)16J (d)32J**

Q9. 1




Find the charge flown through the switch to ground after the switch is closed.

**(a) -50 micro Coulomb** **(b) 50 micro Coulomb**
**(c)100 micro Coulomb** **(d)0 micro Coulomb**

**Reasoning Assertion type.**

**Instruction for question no 10 to 12.**

Question contains two statements, Assertion and Reason. Question also has four alternative choices, only one of which is the correct answer. You have to select one of the codes (a), (b), (c) and (d) from given below.

(a) Assertion is correct, reason is correct; reason is a correct explanation for assertion.

(b) Assertion is correct, reason is correct; reason is not a correct explanation for assertion

(c) Assertion is correct; reason is incorrect

(d) If both Assertion and reason is false.

Q10. ASSERTION:A metallic shield in form of hollow shell may be built to block an electric field . 1
REASON: In a hollow spherical shield electric field inside it is zero at every point.

Q11. ASSERTION: If the distance between parallel plates of a capacitor is halved and dielectric constant is made three times, then capacitor becomes six times. 1
REASON: Capacitance of capacitor does not depend on nature of material.

Q12. ASSERTION: Surface of a symmetrical conductor can be treated as equipotential surface. 1
REASON: Charges can easily flow in a conductor.

## SECTION :B

**Each carry two marks:**

Q13. Derive the expression of electric field due to dipole at any equatorial point. 2

Q14. Prove that electric field lines are perpendicular to equipotential surface. 2

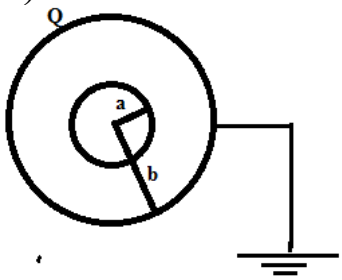
Q15. Draw electric field lines and equipotential surfaces for (a) Two positive charges separated by certain distance. (b) Dipole 2

## SECTION: C

**Each carry three marks:**

Q16. (a)Can potential at a point be zero with non-zero electric field at that point? Give example. 3
(b)Two spheres of different radii (r<R) are having same charge Q. What arrangement can be made such that charge flows from one sphere to other, although both of them have same charge? ( Give mathematical calculations)

Q17. 3




Two spheres are having radii a and b where (b>a). The outer sphere is given a charge of Q. Find charges on all the four surfaces .Also find potential difference between the two spheres.

Q18. (a)Prove Coulomb's from gauss law. 3
(b)Derive the expression of electric field due to infinitely long straight wire at a perpendicular distance r from it having charge density of $+\lambda$ .

## SECTION: D

**Case Based Question:**

Q19. **When electric dipole is placed in uniform electric field, its two charges experiences equal and opposite forces, which cancel each other, so net force on dipole is zero. However, forces are not collinear, then net torque is not zero.** 4

**Answer the following questions:**

(i)Two point charges of -4$\mu$C and +4$\mu$C are placed at points A (1,0,4) and B(2,-1,5) are located in an electric field E=0.2$\hat{i}$ V/cm .Dipole moment of the above dipole is:

**(a)$4x10^{-6}$(i-j+k)** **(b) $4x10^{-6}$(i-j-k)**

**(c)$6x10^{-6}$(i+j+k)** **(d) $4x10^{-6}$(i-j+2k)**

(ii) Two point charges of -4$\mu$C and +4$\mu$C are placed at points A (1,0,4) and B(2,-1,5) are located in an electric field E=0.2$\hat{i}$ V/cm . Then torque acting on the dipole in N-m is:

**(a)$8x10^{-5}$(j+i)** **(b) $8x10^{-5}$(j-k)**

**(c) $8x10^{-5}$(i+k)** **(d)$8x10^{-5}$(j+k)**

(iii)Dipole of dipole moment $\vec{p}$=(2i+3j-k)$\mu C$-m is placed in uniform magnetic field $\vec{E}$=(3i+2k)x$10^5$N/C. Potential energy of the dipole is:

**(a)0.4J (b)-0.4J (c)0.2J (d)-0.8J**

(iv)The most stable position of a dipole in uniform electric field is , when angle between dipole moment and electric field is :

**(a)0°** **(b)90°** **(c)180°** **(d)60°**

Q20. **Capacitor is a charge holding device. It has many industrial uses. Capacitance of a capacitor depends on its geometry. A capacitor stores energy in its electric field.** 4

**Answer the following questions:**

**(i)**The plates of a capacitor are being moved away at a constant speed v. If the plate separation at any instant of time is d, then rate of change of capacitance with time is proportional to:

**(a)1/d** **(b)$1/d^2$** **(c)$d^2$** **(d) d**

**(ii)** If the charge on a capacitor is increased by 2C, The energy stored increased by 21%. The original charge on the capacitor (in C ) is:

**(a)10** **(b) 20** **(c) 30** **(d) 40**

**(iii)** A parallel plate air capacitor is made using two square plates of edge length 0.1m spaced 1cm apart.It is connected to 1 volt battery. What is its capacitance?

**(a)$8.85x10^{-10}$F** **(b) $8.85x10^{-22}$F**

**(c) $8.85x10^{-12}$F** **(d) $8.85x10^{-2}$F**

**(iv)** A parallel plate air capacitor is made using two square plates of edge length 0.1m spaced 1cm apart. It is connected to 1 volt battery. What is charge on each plate ?

**(a)$8.85 \times 10^{-10}$C** **(b) $8.85 \times 10^{-16}$C**

**(c) $8.85 \times 10^{-12}$C** **(d) $8.85 \times 10^{-2}$C**

## SECTION: E

**Long answer type question:**

Q21. (a) Derive the expression of electric field due to dipole at axial point outside the dipole'. 5

(b) Derive expression of potential due to dipole at any point.

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE : A**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : [2024-2025]**
**CHEMISTRY**
**CLASS : XII**

**Time: $1\frac{1}{2}$ Hrs.** **Maximum Marks: 40**

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***General Instructions:***

*1. There are 22 questions in all. All questions are compulsory.*
*2. This question paper has three sections: Section - A, Section - B, Section - C, Section - D and Section - E*
*3. Section - A contains 12 questions, 09 MCQ,s and 03 A/R of 1 mark each.*
*4. Section - B contains 05 SA-1 type questions of 2 marks each.*
*5 .Section - C contains 03 SA-2 type questions of 3 marks each.*
*6. Section - D consist of 01 case based question of 4 mark.*
*7. Section - E consist of 01 LA - type question of 5 mark.*

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## SECTION-A

1. Maximum amount of a solid solute that can be dissolved in a specified amount of a given liquid solvent does not depend upon..... 1
   (a) temperature
   (b) nature of solute
   (c) pressure
   (d) nature of solvent

2. The quantity of charge required to obtain one mole of aluminium from $Al_2O_3$ is 1
   (a)1F
   (b) 6F
   (c) 3F
   (d) 2F

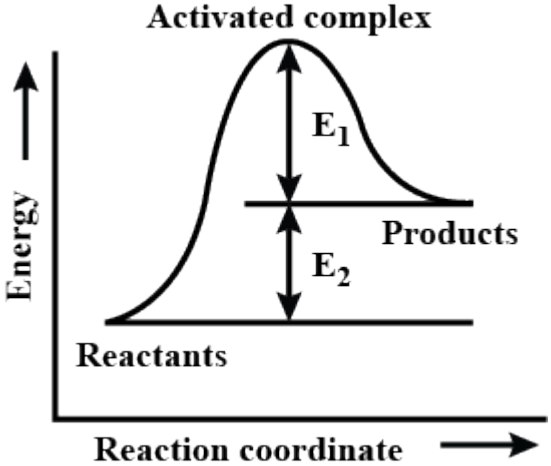
3. Rate law for the reaction A+2B→C is found to be 1
R =k[A][B]
Concentration of reactant 'B' is doubled, keeping the concentration of 'A' constant, the value of rate constant will be _____
(a) the same
(b) doubled
(c) quardrupled
(d) Halved

4. The unit of ebullioscopic constant is _____. 1

(a)K kg $mol^{-1}$
(b) mol kg $K^{-1}$
(c) kg $mol^{-1}$ $K^{-1}$
(d) K mol $kg^{-1}$

5. An electrochemical cell can behave like an electrolytic cell when 1
_____.
(a) $E_{cell} > E_{ext}$
(b) $E_{cell} = 0$
(c) $E_{cell} = E_{ext}$
(d) $E_{ext} > E_{cell}$

6. Consider the following figure and mark the correct option. 1



(a) Activation energy of forward reaction is $E_1+E_2$ and product is less stable than reactant
(b) Activation energy of forward reaction is $E_1+E_2$ and product is more stable than reactant
(c) Activation energy of forward and backward reaction is $E_1+E_2$ and product is more stable than reactant
(d) Activation energy of backward reaction is $E_1$ and product is more stable than reactant

7. 1 mole of liquid 'A' and 2 moles of liquid 'B' make a solution having a total vapour pressure 40 torr. The vapour pressure of pure 'A' and pure 'B' are 45 torr and 30 torr respectively. The above solution 1
(a) is an ideal solution
(b) show negative deviation
(c) is a minimum boiling azeotrope
(d) has volume greater than the sum of individual volumes

8. The tendencies of the electrodes made up of Cu, Zn and Ag to release electrons when dipped in their respective salt solutions decrease in the order :- 1

(a) Zn > Ag > Cu
(b) Cu > Zn > Ag
(c) Zn > Cu > Ag
(d) Ag > Cu > Zn

9. The role of a catalyst is to change ..... . 1
(a) Gibbs energy of reaction
(b) activation energy of reaction
(c) Enthalpy of reaction
(d) equilibrium constant

**In Q.No 10 to 12 a statement of Assertion(A)followed by a statement of Reason (R) is given. Choose the correct option out of the choices given below :-**

**(a) Both A and R are true and R is the correct explanation of A.**

**(b) Both A and R are true but R is not the correct explanation of A.**

**(c) A is true but R is false.**

**(d) A is false but R is true.**

10. Assertion:- The sum of mole fraction of all the components in a solution is unity. 1
Reason:-Mole fraction is independent of temperature.

11. Assertion:- For measuring resistance of an ionic solution an AC source is used. 1
Reason:- Concentration of ionic solution will change if DC source is used.

12. Assertion:- Rate constants determined from Arrhenius equation are fairly accurate for simple and complex molecules 1
Reason:- Reactant molecules undergo chemical change irrespective of their orientation during collision.

## SECTION - B

13. (a) How does the size of the blood cells change when placed in an aqueous solution containing more than 0.9% (m/v) sodium chloride and why? 2
(b) Why do gasses always tend to be less soluble in liquids as the temperature is raised?

14. Write two difference between ideal and non-ideal solution. 2

15. Why is a salt bridge or a porous plate not needed in a lead storage battery? 2

16. Define conductivity and molar conductivity of an electrolyte. 2

17. The rate constant for the first order decomposition of $H_2O_2$ is given by the following equation: 2
$\log k = 14.34 - 1.25 \times 10^4\ K/T$
Calculate $E_a$ for this reaction.

## SECTION -C

18. The molal freezing point depression constant for benzene ($C_6H_6$) is 4.90 Kkg $mol^{-1}$. Selenium exists as a polymer of the type $Se_a$ of benzene, the observed freezing point is 0.112°C lower than that of pure benzene. Determine the molecular formula of selenium . 3
(Atomic mass of Se=78.8g $mol^{-1}$)

19. Conductivity of 0.00241M acetic is $7.896\times10^{-5}$S $cm^{-1}$ 3
Calculate its molar conductivity. If $\lambda^o_m$ for acetic acid is 390.5 S $cm^2mol^{-1}$, what is its dissociation constant ?

20. From the rate expression for the following reactions, determines the order of reaction and the dimensions of the rate constant. 3

a) $3NO(g)\rightarrow N_2O(g)+NO_2(g)$ , Rate $=k[NO]^2$

b) $CH_3CHO(g)\rightarrow CH_4(g)+CO(g)$ : Rate $= k[CH_3CHO]^{3/2}$

c) $C_2H_5Cl(g)\rightarrow C_2H_4(g)+HCl(g)$, Rate $=k[C_2H_5Cl]$

## SECTION - D

**Question no. 21 is a case based unit. There are three parts (a, b and c). An internal choice is there in part (c). Read the passage carefully and answer the following questions.**

21. Colligative properties are those properties of solution which depend only upon the number of moles of solute particles irrespective of their nature. There are four colligative properties these help to calculate the molar mass of the solute. If the solute is an non electrolyte and does not undergo dissociation or association in the solution the calculation of its molar mass is easy and simple. However if the solute undergoes association or dissociation in the 4

solution the number of solute particles become less or more in the solution. As a result the observed colligative properties are different from the theoretically calculated value.

(a) Define reverse osmosis.
(b) How does the sprinkling of salt help in clearing the snow-covered roads in hilly areas?
(c) Three aqueous solutions of glucose, common salt, acetic acid are prepared separately. The molarity of the three solution is 0.01M. Arrange the osmotic pressures of the three solutions in increasing order.

OR

(d) An aqueous solution of urea freezes at - $0.35^0$C .At what temperature will a solution of $BaCl_2$ of same concentration (assuming 100% dissociation) freeze? [$K_f = 1.86$ K $mol^{-1}$]

## SECTION - E

22. I. Write the Nernst equation for the following cell representation:- 5
(i) $Mg(s)|Mg^{2+}(0.001M)||Cu^{2+}(0.0001M)|Cu(s)$
(ii) $Fe(s)|Fe^{2+}(0.001M)||2H^{+}(1M)|H_2(g)(1\ bar)|Pt(s)$

II. Calculate emf of the following cell at 25°C:
$Sn(s)\ |Sn^{2+}(0.001M)||2H+(0.01M)|H_2\ (g)(1\ bar)|Pt(s)$
$E^o_{Sn2+/Sn} = -0.14$ V ; $E^o_{2H+/H2} = 0.00$ V

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE : B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST 1: [2024 – 2025]**
**CHEMISTRY**
**CLASS - XII**

**Time: $1\frac{1}{2}$Hrs.** **Maximum Marks: 40**

==========

***General Instructions:***

*i. There are 22 questions in all. All questions are compulsory.*
*ii. This question paper has five sections: Section - A, Section - B, Section - C, Section - D and Section - E*
*iii. Section - A contains 12 questions, 09 MCQ, s and 03 A/R of 1 mark each.*
*iv. Section - B contains 05 SA-I type questions of 2 marks each.*
*v. Section - C contains 03 SA-II type questions of 3 marks each.*
*vi.Section - D consist of 01 case-based question of 4 mark.*
*vii.Section - E consist of 01 LA - type question of 5 mark.*

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## SECTION – A

**Select and write the most appropriate option out of the four options given for each of the questions 1 -9. There is no negative mark for incorrect response.**

1. If two liquids A and B form minimum boiling azeotrope at some specific composition then- 1
   (a) A-B interactions are stronger than those between A-A or B-B.
   (b) Vapour pressure of solution increases because more number of molecules of liquids A and B escape from the solution.
   (c) Vapour pressure of solution decreases because more number of molecules of only one of the liquids escape from the solution.
   (d) A-B interactions are weaker than those between A-A or B-B.

2. An electrochemical cell can behave like an electrolytic cell when- 1

(a) $E_{cell} = 0$
(b) $E_{cell} > E_{ext}$
(c) $E_{ext} > E_{cell}$
(d) $E_{cell} = E_{ext}$

3. The value of rate constant of a pseudo first order reaction- 1

(a) Depends on the concentration of reactants present in small amount.
(b) Depends on the concentration of reactants present in excess.
(c) Is independent of the concentration of reactants.
(d) Depends only on temperature.

4. Which condition is not satisfied by an ideal solution of two liquids? 1

(a) Different structure and polarity
(b) $\Delta H$ mixing$= 0$
(c) $\Delta V$ mixing $= 0$
(d) Obeyance of Raoult's Law

5. Kohlrausch gave the following relation for strong electrolytes: $\Lambda = \Lambda_0 - AC^{1/2}$ 1
Which of the following equality holds?

(a) $\Lambda = \Lambda_0$ as $C \rightarrow A^{1/2}$
(b) $\Lambda = \Lambda_0$ as $C \rightarrow \infty$
(c) $\Lambda = \Lambda_0$ as $C \rightarrow 0$
(d) $\Lambda = \Lambda_0$ as $C \rightarrow 1$

6. The number of molecules that react with each other in an elementary reaction is a measure of the- 1

(a) Activation energy of the reaction.
(b) Order of the reaction.
(c) Stoichiometry of the reaction.
(d) Molecularity of the reaction.

7. In a comparison to a 0.01M solution of glucose, the depression in freezing point of a 0.01M $MgCl_2$ solution is- 1

(a) The same.
(b) About twice.
(c) About three times.
(d) About six times.

8. Which will have highest conductance? 1

(a) Ag at 30°C
(b) Ag at 60°C
(c) Cu at 30°C
(d) Cu at 60°C

9. Which may be true for a chemical reaction? 1

(a) Order= 1, Molecularity= 1.5
(b) Order= 1.5, Molecularity= 2
(c) Order= 2, Molecularity= 0.5
(d) Order= 1, Molecularity= 0

**Question No. 10 to 12 consists of two statements – Assertion (A) and Reason (R). Answer the questions selecting the appropriate options given below:**

**(a) Both A and R are true, and R is the correct explanation of A.**
**(b) Both A and R are true, and R is not the correct explanation of A.**
**(c) A is true but R is false.**
**(d) A is false but R is true.**

10. **Assertion(A):** When methyl alcohol is added to water, boiling point of water increases. 1
**Reason(R):** When a volatile solute is added to a volatile solvent elevation in boiling point is observed.

11. **Assertion(A):**If a solution contains $H^+$ and $Na^+$ ions the $H^+$ ions are reduced at cathode. 1
**Reason(R):** Cations with higher $E^0$ value are reduced first at the cathode.

12. **Assertion(A):**The order of a reaction can have fractional value. 1
**Reason(R):**The order of a reaction cannot be written from balanced equation of the reaction.

## SECTION – B

13. (a) State Henry's Law about partial pressure of a gas in a mixture. 2
(b) Liquid A and B on mixing produce a warm solution. Which type of deviation does the solution show?

14. Determine the amount of $CaCl_2$( i= 2.47) dissolved in 2.5 liter of water such that its osmotic pressure is 0.75 atm at 27°C. 2

15. (a) How much charge is required for the following reduction: 2
1 mol of $Al^{3+}$ to Al.

(b) Suggest two materials other than hydrogen that can be used as fuels in fuel cell.

16. Calculate the potential of the following cell: 2

$$Sn^{4+}(1.5\ M)+Zn \rightarrow Sn^{2+}(0.5\ M)+Zn^{2+}(2\ M)$$

Given: $E^0(Sn^{4+}/Sn^{2+})= 0.13V$

$E^0(Zn^{2+}/Zn)= - 0.76V$

Will the cell potential increases or decreases if the concentration of $Sn^{4+}$ is increased?

17. A first order reaction takes 40 min for 30% decomposition. 2
Calculate $t_{1/2}$.

## SECTION – C

3

18. (a) Calculate the mass of ascorbic acid (vitaminC, $C_6H_8O_6$) to be dissolved in 75g of acetic acid to lower its melting point by 1.5°C. $K_f$ = 3.9KKg/mol.

(b) Explain the significance of Henry's constant ($K_H$).

19. (a) Depict the Galvanic cell in which the reaction- 3

$$Zn(s)+2\ Ag^{+}(aq) \rightarrow Zn^{2+}(aq)+2\ Ag(s)$$

takes place. Further show the individual reaction at each electrode.

(b) Why does the conductivity of a solution decreases with dilution?

20. A reaction is first order in A and second order in B. 3

i) Write differential rate equation.

ii) How is the rate affected on increasing the concentration of B three times?

iii) How is the rate affected when concentration of both A and B is doubled?

## SECTION – D

**Question no. 21 is case based / source-based questions with 3 sub parts. Internal choice is provided in one of these sub parts.**

21. The osmotic pressure of a solution is the excess pressure that must be applied to a solution to prevent osmosis, i.e., to stop the passage of solvent molecules through a semipermeable membrane into the solution.Osmotic pressure is a colligative property as it depends on the number of solute molecules and not on their identity. 4

(a) Why is osmotic pressure preferred for the molar mass determination of macromolecules over other colligative property?
(b) What is reverse osmosis?
(c) A 4% solution (W/V) of sucrose ($C_{12}H_{22}O_{11}$) is isotonic with 3% solution of an unknown organic substance. Calculate the molar mass of unknown substance.

(c) **OR**

Blood cells are isotonic with 0.9% sodium chloride solution. What happens if we place blood cells in 0.4% sodium chloride solution? Also write the name of this type of solution.

22. **SECTION – E** 5

(a) Conductivity of 0.00241M acetic acid is $7.896\times10^{-5}Scm^{-1}$. Calculate its molar conductivity. If $\Lambda^0m$ for acetic acid is $390.5Scm^2mol^{-1}$ what is its dissociation constant?
(b) State Faraday's laws of electrolysis.

(c) The molar conductivity of $CH_3COONa$,HCl and NaCl at infinite dilution is 91, 426.16 and 126.45 $ohm^{-1}cm^2mol^{-1}$.Calculate $\lambda^0_m$ for $CH_3COOH$.

==========

**Name: _____ Sec: ____ Roll No.: ____**

**CODE :** A

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST 1: [2024 – 2025]**
**BIOLOGY[044]**
**CLASS : XII**

**Time: 1½ Hrs.** **Maximum Marks : 40**

==========

***General Instructions:***

*(i) This question paper consists of 21 questions in 5 sections.*
*ii) All questions are compulsory.*
*iii) Section A consists of 12 objective type questions carrying 1 mark each.*
*iv) Section B consists of 3 Short Answer type questions carrying 2 marks each.*
*V) Section C consists of 3 Short Answer type questions carrying 3 marks each.*
*vi) Section D consists of 2 Case based/ Source based units of assessment of 4 marks each with subparts( internal choice has been provided in one of the sub - parts)*
*vii) Section E consists of 1 Long Answer type question carrying 5 marks.*

==========

## Section – A

1. In transverse section, anther appears - 1
   (a) Dithecous
   (b) Monothecous
   (c) Polythecous
   (d) Any of the above

2. How many pollen mother cells will form 1000 pollen grains? 1
   (a) 100
   (b) 150
   (c) 200
   (d) 250

3. If the total number of chromosomes in the root cell of a plant is 14, what will be the number of chromosomes in a synergid? 1
(a) 7
(b) 14
(c) 21
(d) 28

4. Penis is lubricated by the secretion of - 1
(a) Seminal vesicles
(b) Prostate gland
(c) Bulbourethral gland
(d) Uninary bladder

5. Primary sex organ of the female reproductive system does **not** produce - 1
(a) ova
(b) hCG
(c) Estrogen
(d) Progesterone

6. The purpose of tubectomy is to prevent - 1
(a) Egg formation
(b) Embryo development
(c) Coitus
(d) Fertilization

7. The non-medicated IUD is - 1
(a) Copper T
(b) Progestasert
(c) LNG 20
(d) Lippes loop

8. Embryo with more than 16 blastomers formed due to IVF is transferred into - 1
(a) cervix
(b) uterus
(c) fallopian tube
(d) fimbriae

9. Which of the following is a recessive trait in pea plant? 1
(a) Yellow podcolour
(b) Yellow seed colour
(c) Violet flower colour
(d) Axial flower position

Question No. 10 to 12 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:
a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true and R is not the correct explanationof A.
c) A is true but R is false.
d) A is false but R is true.

10. A: In some species of asteraceae, seeds are formed without fertilization 1
R: Formation of fruit without fertilization is called parthenocarpy.

11. A: Antrum is a cavity present in the middle of ovary. 1
R: Antrum contains nourishing fluid derived from blood capillaries present in the ovary.

12. A: Avoid unsafe coitus. 1
R: AIDS and genital herpes are incurable STDs.

## Section – B

13. How does LH and FSH help in gametogenesis in human males? 2

14. Why are condoms regarded as the most accepted contraceptive? 2

15. A mother has A-blood group and her son has O-bloodgroup. What could be the genotype of the mother and father? 2

## Section – C

16. Elaborate the process that converts MMC to an embryo sac. 3

17. Describe any three devices adopted by plants to encourage cross pollination. 3

18. How is sex determined in honey bees? 3

## Section – D

19. Microsporogenesis in angiosperms help in production of microspores from PMC. These microspores develop intopollen grains with an outer layer, inner layer, germ pore, vegetative cell and generative cell(s). 4

(a) What is intine and exine made up of ?
(b) What is the function of germ pore ?
(c) State one advantage and one disadvantage of pollen grains.

OR

(c) How are pollen grains preserved?

20. A couple had been in sexual cohabitation without using any contraceptive but failed to conceive for more than 3 years. When they consulted a doctor, he suggested them some tests followed by ART assistance. 4

(a) If the doctor suggested them to go for an AI, what could be the possible problem ?
(b) What does ART stand for?
(c) What is ICSI ?
OR
(c) What is GIFT ?

## Section – E

21. With the help of a well labeled diagram explain the anatomical structure of mammary gland. 5

==========

**Name:_____ Sec: _____Roll No.: _____**

**CODE-B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 (2024-2025)**
**BIOLOGY**
**CLASS-XII**

**Time: 1½ Hours** **Maximum Marks: 40**

==========

**General instructions:**

i. This question paper consists of 21 questions in 5 sections.
ii. All questions are compulsory.
iii. Section A consists of 12 objective type questions carrying 1 mark each.
iv. Section B consists of 3 short answer type questions carrying 2 marks each.
v. Section C consists of 3 short answer type questions carrying 3 marks each.
vi. Section D consists of 2 case based/ source-based units of assessment of 4 marks each with sub-parts (internal choice has been provided in one of the sub-parts)
vii. Section E consists of 1 long answer type question carrying 5 marks.

==========

## SECTION-A

1 In a stamen, proximal end of filament is attached to 1
a) Anther
b) Thalamus or petals
c) Sepals
d) Gynoecium

2 The cells of which of the following layers of the anther wall generally have more than one nucleus? 1

a) Epidermis
b) Endothecium
c) Tapetum
d) Middle Layer

3 The hilum in a typical angiospermic ovule represents the junction between 1

a) Integuments and the embryo sac
b) Embryo sac and the nucellus
c) Ovule and the funicle
d) Nucellus and the funicle

4 Each seminiferous tubule is lined on its inside by 1

a) Spermatogonia
b) Primary spermatocytes
c) Sertoli cells
d) Both a and c

5 For normal fertility what percent of the sperm in ejaculation must exhibit vigorous motility? 1

a) 20
b) 30
c) 40
d) 60

6 IUDs release copper ion to 1

a) Prevent ovulation
b) Suppress sperm motility
c) Prevent implantation
d) Increase phagocytosis of sperms

7 Medical termination of pregnancy is considered safe upto how many weeks of pregnancy? 1

a) 12 weeks
b) 18 weeks
c) 6 weeks
d) 8 weeks

8 When were family planning programmes initiated in India? 1

a) 1948
b) 1962
c) 1959
d) 1951

9 In sickle cell anemia, glutamic acid is replaced by valine. Which one of the triplets code for valine? 1

a) GGG
b) AAG
c) GAA
d) GUG

Question no 10,11 and 12 consists of two statements – Assertion (**A**) and Reason (**R**). Answer these questions selecting the appropriate options given below

a) Both **A** and **R** are true and **R** is the correct explanation of **A**.
b) Both **A** and **R** are true, but **R** is not the correct explanation of **A**.
c) **A** is true, but **R** is false.
d) **A** is false, but **R** is true.

10 **Assertion**: In majority of angiosperms, there is monosporic type of embryo sac development. 1
**Reason**: The embryo sac develops from the single functional megaspore.

11 **Assertion**: All copulations cannot lead to fertilization and pregnancy. 1
**Reason**: Fertilization can only occur if the ovum and sperms are transported simultaneously to the ampullary-isthmic junction.

12 **Assertion**: Mother should not be blamed for the birth of girls in the family. 1
**Reason**: Father is responsible for the sex of the child.

## SECTION-B

13 Why does corpus luteum secrete large amount of progesterone during the luteal phase of the menstrual cycle? 2

14 What is the significance of progesterone-estrogen combination (oral pills) as a contraceptive measure used by females? 2

15 A woman with blood group O married a man with AB group. Show the possible blood groups of the progeny. 2

## SECTION-C

16 Mention any three devices developed by flowering plants to discourage self-pollination and encourage cross-pollination. 3

17 Why is emasculation done in the process of hybridization? 3

18 What is a Test cross? How can it decipher the heterozygosity of a plant? 3

## SECTION-D

19 The pollen grains or microspores are the male reproductive bodies of a flower and are contained in the pollen sac or microsporangia. Each pollen grain consists of a single microscopic cell, possessing two coats: the exine and intine. The exine of a pollen grain is made of chemically stable material. Because, of this, pollen grains are often very well preserved for thousands of years in soil and sediments. 4

a) A pollen grain in angiosperm at the time of dehiscence from an anther could be 2-celled or 3-celled. Explain.
b) What is the function of germ pore?
c) Name the organic material with which the exine of an angiospermic pollen grain is made of?

OR

c) Name the organic material with which the intine of an angiospermpic pollen grain is made of?

20 A young couple married for over five years is unable to bear a child inspite of not practicing any birth control methods. Upon consultation, the doctor advised them an assisted reproductive technology involving transfer of gametes into oviducts. 4

a) Identify the technique/technology adopted by the couple.

b) Cite any two reason for infertility among large number of couples across the world.

c) Explain the IUI method of assisted reproductive technology.

OR

c) Explain IUT method of assisted reproductive technology.

## SECTION-E

21 Give a schematic representation of (a) Spermatogenesis and (b) Oogenesis in humans. 5

==========

**Name: _____ Sec: ____ Roll No.: ____**

**CODE: A**

# BURNPUR RIVERSIDE SCHOOL, BURNPUR
## PERIODIC TEST-1 : (2024-2025)
## COMPUTER SCIENCE (083)
## CLASS: XII

**Time: 1 ½ Hrs.** **Maximum Marks: 40**

==========

***General Instructions:***

- *The question paper is divided into 3 sections – A, B, C, D and E.*
- *Section-A, consists of 12 questions (1-12). Each question carries 1 mark.*
- *Section-B, consists of 05 questions (13-17). Each question carries 2 marks.*
- *Section-C, consists of 03 questions (18-20). Each question carries 3 marks.*
- *Section-D, consists of 1 question (21) of 5 marks.*
- *Section-E, consists of 1 question (22) of 4 marks.*

==========

## Section-A
## Each question carries 1 marks

1. State TRUE or FALSE: 1
'The expression 2**2**3 is evaluated as: (2**2)**3.'

2. Given a list L = [10, 20, 30, 40, 50, 60, 70], 1
what would L[-3 : 99] return?
a. [20, 30, 40] b. [50, 60, 70] c. [40, 50, 60] d. none

3. Which of the following is a valid arithmetic operator in Python: 1
a. ? b. < c. // d. and

4. What is printed by the following statements? 1
```
D1 = {"cat":12, "dog":6, "elephant":23, "bear":20}
Print ("dog" in D1)
```
a. True b. False c. Error d. none

5. Which of the following is valid membership operator in Python: 1
a. or b. in c. is d. none

6. Dictionaries are ____ set of elements. 1
a. sorted b. ordered c. unordered d. none

7. Which of the following function calls can be used to invoke the below given function header? 1

```
def test(a, b, c, d)
```

a. test(1, 2 ,3, 4) b. test(a=1, 2, 3, 4)
c. test(a=1, b=2, c=3, 4) d. none

8. What is a variable defined inside a function referred to as? 1
a. A static variable b. A global variable
c. A local variable d. none

9. A .py file containing constants/variables, classes, functions etc. related to a particular task and can be used in other programs is called ____. 1
a. module b. library c. classes d. none

10. The uniform( ) function is the part of ____ module. 1

***Q11 and 12 are ASSERTION AND REASONING based questions. Mark the correct choice as:***

(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is True but R is false (or partly true).
(d) A is false (or partly true) but R is true.
(e) Both A and R are False or not fully true.

11. Assertion (A): Dictionaries are mutable, hence its keys can be easily changed. 1

Reasoning (R): Mutability means a value can be changed in place without having to create new storage for the changed value.

12. Assertion (A): “”” A Sample Python String””” is a valid Python String. 1

Reasoning (R): Triple Quotation marks are not valid in Python.

## SECTION–B
## Each question carries 2 marks

13. What will be the output of the following code? 2

```
def addEm(x, y, z):
    print(x+y+z)

def prod(x, y, z):
    return x*y*z

a = addEm(6, 16, 26)
b = prod(2, 3, 6)
print(a, b)
```

14. What is the problem in the following piece of code? 2

```
    from math import factorial
    print (math.factorial(5))
```

Also, write the correct piece of code.

15. What does help( ) and dir( ) function do? 2

16. What is the output of the following code? 2

```
>>> a = 2**(3**2)
>>> b = (2**3)**2
>>> c = 2**3**2
>>> a, b, c
```

17. Find the errors in the following code fragment and write the correct code. 2

```
Def s(x):
    a = 'k'
    print(a * x)
    print(a * str(x))
for in [1, 2, 10 :
    s(n)
```

## Section-C
## Each question carries 3 marks

18. Find and write the output of the following python code: 3

```
def changeval(m, n):
    for i in range(n):
        if m[i] % 5 = = 0:
            m[i] //= 5
        if m[i] % 3 = = 0:
            m[i] //= 3
L = [25, 8, 75, 12]
changeval(L, 4)
for i in L :
    print(i, end= '#')
```

19. Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 3

```
100=A
for B in range(0,x):
    IF B%4==0:
        print(B**2)
    Else:
        print(B**3+10)
```

20. Find and write the output of the following python code: 3

```
data = ["p", 20, "r", 10, "s", 30]
times = 0
alpha = " "
add = 0
for c in range(1, 6, 2):
    times =  times + c
    alpha =  alpha + data[c-1] + "$"
    add =  add + data[c]
    print ( times,  add,  alpha)
```

## Section-D
## Each question carries 5 marks

21. What do you understand by 'Positional Argument'. 5
Write python code as an example to support your answer.

## Section-E
## Each question carries 4 marks

22. Write a program in python to calculate the factorial of a 4
number using functions. (Ex: factorial of 3 is 3 * 2 * 1 = 6)

==========

**Name: _____ Sec: ____ Roll No.: ____**

**CODE: B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**

**PERIODIC TEST-1 : (2024-2025)**

**COMPUTER SCIENCE (083)**

**CLASS: XII**

**Time: 1 ½ Hrs.** **Maximum Marks: 40**

==========

***General Instructions:***

- *The question paper is divided into 3 sections – A, B, C, D and E.*
- *Section-A, consists of 12 questions (1-12). Each question carries 1 mark.*
- *Section-B, consists of 05 questions (13-17). Each question carries 2 marks.*
- *Section-C, consists of 03 questions (18-20). Each question carries 3 marks.*
- *Section-D, consists of 1 question (21) of 5 marks.*
- *Section-E, consists of 1 question (22) of 4 marks.*

==========

## Section-A
## Each question carries 1 marks

1. State TRUE or FALSE: 1
‘ In Python, a variable is a placeholder for data.’

2. Given a list L = [10, 20, 30, 40, 50, 60, 70], 1
what would L[-4 : -1] return?
a. [20, 30, 40] b. [30, 40, 50] c. [40, 50, 60] d. none

3. Which of the following is not a valid arithmetic operator in Python: 1
a. ? b. < c. and d. none

4. What is printed by the following statements? 1
D1 = {“cat”:12, “dog”:6, “elephant”:23, “bear”:20}
Print (25 in D1)
a. True b. False c. Error d. none

5. The _____ operator tells if an element is present in a sequence or not. 1
a. exists b. in c. into d. inside

6. Dictionaries are also called ____. 1
a. mappings b. hashes c. Both (a) & (b) d. none

7. Which of the following function calls will cause error while invoking the below given function header? 1

```
def test(a, b, c, d)
```

a. test(1, 2 ,3, 4) b. test(a=1, 2, 3, 4)
c. test(a=1, b=2, c=3, d=4) d. none

8. What is a variable defined outside all the functions referred to as? 1

a. A static variable b. A global variable
c. A local variable d. none

9. The collection of modules and packages that together cater to a specific type of applications or requirements, is called ____. 1

a. module b. library c. classes d. none

10. The capwords( ) is the part of ____ module. 1

***<u>Q11 and 12 are ASSERTION AND REASONING based questions. Mark the correct choice as:</u>***

(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true but R is not the correct explanation of A.
(c) A is True but R is false (or partly true).
(d) A is false (or partly true) but R is true.
(e) Both A and R are false or not fully True.

11. Assertion (A): Modifying a string creates another string internally but modifying a list does not create a new list. 1

Reason (R): Strings are immutable types while lists are mutable types of Python.

12. Assertion (A): Lists and Tuples are similar sequence types of Python, yet they are two different datatypes. 1

Reason (R): List sequences are mutable and Tuple sequences are immutable.

## SECTION–B
## Each question carries 2 marks

13. What will be the output of the following code? 2

```
def addEm(x, y, z):
    K = x+y+z

def prod(x, y, z):
    return x*y*z

a = addEm(6, 16, 26)
b = prod(2, 3, 6)
print(a, b)
```

14. What would be the output produced by the following code: 2

```
import math
import random
print (math.ceil(random.random( )))
```

Justify your answer.

15. Which import statement does not require the imported module's name along with imported variables / definitions in the program and why? 2

16. What does the following expression evaluate to? 2

```
>>> 8/4/2, 8/(4/2), (8/4)/2
```

17. Find the errors in the following code fragment and write the correct code. 2

```
s = [11, 13, 15]
for n in arange(len(s)):
tot = tot + s(n)
print(tot)
```

## Section-C
## Each question carries 3 marks

18. Find and write the output of the following python code: 3

```
def call(p=40, q=20):
    p = p + q
    q = p – q
    print (p, '@', q)
    return p
r = 200
s = 100
r = call(r, s)
print (r, '@', s)
s = call(s)
print (r, '@', s)
```

19. Write a program to enter 10 integer numbers into a list and perform the following task: 3
(i) Sum of all odd numbers.
(ii) Count how many numbers are even.

20. Find and write the output of the following python code: 3

```
nos = [9, 18, 27, 36]
for num in nos:
    for n in range (1, num % 8):
        print (n, "#", end= " ")
    print( )
```

## Section-D
## Each question carries 5 marks

21. What do you understand by 'Default Argument'. 5
Write python code as an example to support your answer.

## Section-E
## Each question carries 4 marks

22. Write a program in python to whether check a number is an Armstrong number or not using functions. 4

==========

**Name: _____ Sec: ____ Roll No.: ____**

**CODE: A**

# BURNPUR RIVERSIDE SCHOOL, BURNPUR
## PERIODIC TEST-1 : (2024-2025)
## PHYSICAL EDUCATION
## CLASS: XII

**Time: 1 ½ Hrs.** **Maximum Marks: 40**

==========

***General Instructions:***

*1. There are 17 questions in the question papers. All questions are compulsory.*

*2. Section A consists of question no 1 to 8 which has 8 MCQS. Each question carries 1 mark.*

*3. Section B consists of question no 9 to 10 are very short answer type questions. Each question carries 2 marks. (30 to 50 words)*

*4. Section C consists of question No 11 is short answer type questions. The question carries 3 marks. (80 to 100 words)*

*5. Section D consists of question No 12 to question no 16 are value based / source based question, carry 4 mark*

*6. Section E consists of question No17 islong answer type questions. The question carries 5 marks. (100 to 150 words)*

==========

## SECTION – A

Q.1 The other name of league tournament is 1

a. Round Robin tournament
b. Knockout tournament
c. Combination tournament
d. Challenge tournament

Q.2 If total numbers of teams in knockout tournament are 13, how many teams will be upper half? 1

a. 6 b. 7 c. 8 d. 5

Q.3 Which of these asana is suggested for relief from lordosis? 1

a. Chakrasana
b. Vajrasana
c. Halasana
d. Matsyasana

Q.4 Amenorrhea is a condition of 1
a. Menstrual disorder
b. Psychological disorder
c. Eating disorder
d. None of these

Q.5 Which one of the following asana is not a remedial asana for treating obesity? 1
a. Vajrasana
b. Trikonasana
c. Chakrasana
d. Ardhmatseyendrasana

Q.6 Which of the following asana is performed in sitting position? 1
a. Chakrasana
b. Sukhasana
c. Bhujangasana
d. Tadasana

Q.7 The founder of special Olympic was ……. 1
a. Eunice Kennedy Shrive
b. John F. Kennedy
c. Lyndon B. Johnson
d. Donald Trump

Q.8 Inclusion is needed to 1
a. Social development of CWSN
b. To increase motion skills
c. To improve academic performance
d. All of these

## SECTION – B

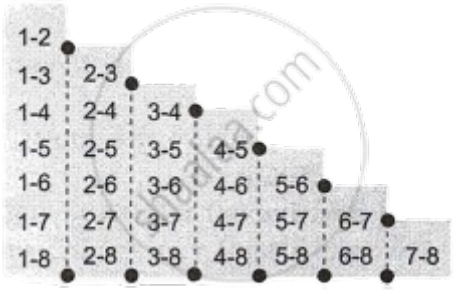
Q.9 List two benefits of Inclusive Education. 2

Q.10 Write any two objectives of planning. 2

## SECTION – C

Q.11 Write a short note on Menarche 3

Q.12 **SECTION –D** 4




a. On the basis of above fixture, answer the following questions.
a. Which method is shown the picture to draw fixture in league tournament?
b. What is the formula to calculate number of matches?
c. In league or Round Robin tournament, winner will be decided on the basis of ……..
d. If 7 teams participate in a league tournament,_____ number of matches will be played.

Q.13 Identify the asana: 4

a.


b.

c.

d.

Q.14. As a part of international yoga day, school head boy, sunil, must introduce students to the history and basics of yoga. The principal has told him to explain to students the connection of yoga to diseases and wellness. He has also been told to focus on diseases in general and obesity. 4

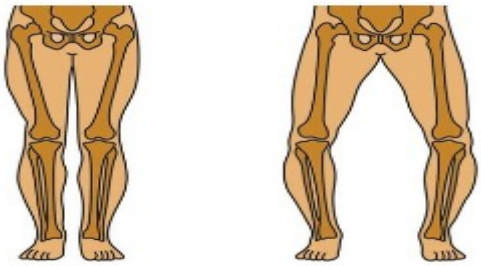
a. What are the eight branches of modern yoga?

b. What is the role of yoga in preventing diseases?

c. Childhood obesity is on the rise. What yogasanas ought to be suggested to help fight obesity especially in teenage students?

d. How to school organize international yoga day in school boundary.

Q.15 On the basis of the pictures given below answers the following questions. 4



a. Identify the deformity.

b. List any two causes for this deformity.

c. Yoga asanas to cure this deformity are _____ and _____ .

d. Other name of this deformity is _____ .

Q.16. On the basis of the pictures given below answers the following questions. 4

a. Identify the logo of these games.
b. The pioneer of the Special Olympics was _____
c. List any four games included in these games.
d. The logo of these games is based on the sculpture _____

## SECTION – E

Q.17. What is Knockout tournament? Draw a fixture of 11 teams on a knockout basis. 5

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE : B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**

**PERIODIC TEST-1 : (2024-2025)**

**PHYSICAL EDUCATION**

**CLASS: XII**

**Time: 1 ½ Hrs. Maximum Marks: 40**

==========

***GENERAL INSTRUCTIONS:-***

1) *The question paper consists of 5 sections and 17 questions.*
2) *Section-A consists of questions no.1-8 carrying 1mark each and is multiple choice questions. All are compulsory.*
3) *Section-B consists of questions no. 9 &10 carrying 2 marks each and are very short answer types and should not exceed 60-90 words.*
4) *Section-C consists of questions no.11 carrying 3 marks and are short answer types and should not exceed 100-150 words.*
5) *Section-D consists of question no. 12 to 16 carrying 4 marks each and are case studies.*
6) *Section-E consists of questions no. 17 carrying 5 marks and long answer types and should not exceed 200-300 words.*

==========

## SECTION-A

Q.1. In knock-out tournament team has to 1

a) Play large number of matches
b) Play one match
c) Gets bye
d) Play till they are winning

Q.2. Which of the tournament is good when there is large number of teams from different regions across India? 1

a) Knock-out Tournament
b) League Tournament
c) Challenge Tournament
d) Combination Tournament

Q.3. _____ is the exaggeration of the normal dorsal curve of the spine resulting depressed chest. 1

a) Kyphosis
b) Lordosis
c) Scoliosis
d) Round shoulder

Q.4. Menarch is defined as the 1

a) Ending of menstrual period in women
b) Beginning of menstrual period in women
c) Time of pregnancy
d) Beginning of pregnancy

Q.5. What are the symptoms of Asthma? 1

a) Extra production of mucus
b) Excessive coughing
c) Wheezing and shortness of breath
d) Al of these

Q.6. **Assertion-Reason Type Questions :** 1

Given below are the two statements labelled Assertion (A) and Reason (R). Select the correct answer to these questions from codes (a), (b), (c) & (d).
Assertion (A):- Tadasana helps to cure obesity.
Reason (R):- In this person sits in triangular position crossing the legs.

a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.

b) Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.

c) Assertion is true, but Reason is false.

d) Assertion is false, but Reason is true.

Q.7. Currently physical education is an important as regular education for all children but more important for children with special needs. Besides enhancing physical abilities, sports offer opportunity for community feeling and socialisation with a wide range of children. How physical education benefits CWSN? 1

a) It makes them healthy and fit
b) Develops their social qualities
c) Develops adjustment abilities
d) All of these.

Q.8. World Disability Day is celebrated on… 1

a) 2nd April
b) 21st June
c) 29th August
d) 3rd December

## SECTION-B

Q.9. League Tournament is a better way to judge the best team of tournament. Give your comment. 2

Q.10. Write the difference between Paralympics and Special Olympics. 2

## SECTION-C

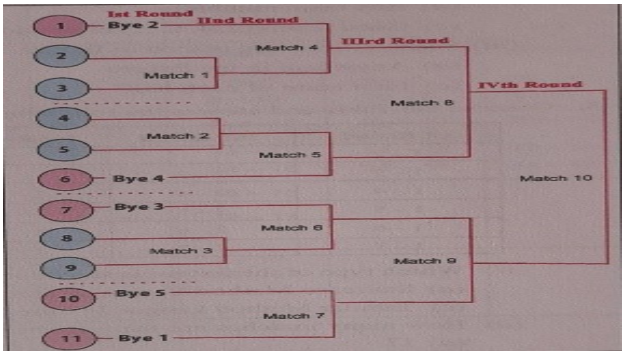
Q.11. Jaspreet Singh is a physical education teacher in a high school where most children shy away from taking part in sports. They do not have any interest in physical education classes. 3

a) What should Jaspreet Singh tell students about the benefits of sports?
b) What should he explain about sportsman spirit?
c) How do sports help develop skills?

## SECTION-D

Q.12. **Picture-Based Question:** 4×1=4

**This contains questions based on the figure/table, you need to identify the figure/table and answer the questions accordingly.**



a) Which type of tournament is shown in the figure?
   i) Seeding Tournament
   ii) Knock-out Tournament
   iii) League Tournament
   iv) Combination Tournament

b) What is the formula for calculating the number of Bye?
   i) Considering nearest power of two minus number of teams.
   ii) N-1
   iii) 2×2×2×2
   iv) N+1/2

c) Formula for calculating number of matches in knock-out tournament is
   i) N(N-1)
   ii) N-2
   iii) N(N-1)/2
   iv) None of these

d) What is the formula for teams in upper half?
   i) N+1/2
   ii) N-1/2
   iii) N(N-1)/2
   iv) None of these

Q.13. **CASE STUDY-BASED QUESTIONS: 4 x 1 = 4**

Many children suffer from postural deformities. These can be corrected if recognised early and treated properly. Gurneet had a deformity in his spine which caused him to bend forward and his knees touched each other while he stood straight.

**Based on the case, answer the following questions:**

a) Which of the deformity was noticed by Gurneet?

i) Kyphosis and knock-knees
ii) Lordosis and Bow legs
iii) Scoliosis and Flat foot
iv) All

b) What asanas can be recommended to correct Kyphosis and Knock-knees?

i) Garudasana and Padmasana
ii) Ardha Matsyendrasana Paschimottasana
iii) Garudasanaand Chakrasana
iv) Trikonasana and Vajrasana

c) Abnormal curve of spine at front is called?

i) Scoliosis
ii) Kyphosis
iii) Lordosis
iv) Knock-knees

d) Dhanurasana and Bhujangasana is best corrective measure for

i) Lordosis
ii) Kyphosis
iii) Scoliosis
iv) Spine deformity

Q.14. **CASE STUDY-BASED QUESTIONS: 4 X1=4**

Raman is a student of class VIII and is suffering from obesity. During a recent medical check-up at school he was advised to practice yoga and participate in sports activities for curing it.

**Based on the case answer the following questions:**

a) The Yoga instructor at the school has asked Raman to perform

i) Tadasana
ii) Katichakrasana

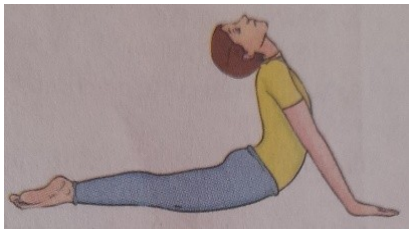
iii) Pawanmuktasana
iv) All of these

b) The BMI for Obese person is
i) <18.5
ii) 18.5-24.9
iii) >30
iv) >25

c) Due to obesity, Raman is also suffering from knock knees for which he is advised to
i) Walk on inner edge of foot
ii) Walk on outer edge of foot
iii) Walk on heels
iv) Walk on toes

d) What is the normal BMI of a person?
i) <18.5
ii) 18.5-24.9
iii) >30
iv) >25

Q.15. **CASE STUDY-BASED QUESTIONS:** 4×1=4
**Observe the given image carefully and answer the questions that follow:**



a) Identify the above pose from the asanas given below.
i) Bhujangasana
ii) Katichakrasana
iii) Pawanmuktasana
iv) All of these

b) What is another name of given picture asana?
i) Cow pose
ii) Lotus pose
iii) Camel pose
iv) Cobra pose

c) This asana should be avoided by people suffering with……
i) Obesity
ii) Hernia
iii) Diabetes
iv)'a' and 'b' both

d) Normal blood pressure of an adult should be…
i) 140/90 mm/Hg
ii) 120/80 mm/Hg
iii) 130/90 mm/Hg
iv)140/95 mm/Hg

Q.16. **CASE STUDY-BASED QUESTIONS:** 4×1=4

The International Paralympic Committee is the global governing body of the Paralympics Movement. It's is to organise the summer and winter Paralympics Games and act as the International Federation for ten sports, supervising and coordinating World Championship and other competitions.

**On the basis of the case given, answer the following questions:**

a)Where were the first Paralympics Games held?
i) Rome
ii) Paris
iii) London
iv)New York

b) In which Olympics the "Paralympics "word was used officially?
i) Mexico Olympics, 1968
ii) Seoul Olympics, 1988
iii) Athens Olympics, 2004
iv)None of these

c)The reason Paralympics Games got their name was because:
i) They were meant for athletes suffering from paraplegia
ii) They run alongside or parallel to the Olympic Games
iii) The athletes are paragon of their sports
iv)They are attended by a large number of paramedics

d) In which year, the International Paralympic Committee was established?
i) 1969
ii) 1979
iii) 1989
iv) 1968

## SECTION-E

Q.17. Draw a fixture of 9 teams on the basis of League tournament using Cyclic method. Explain British metod to declare the winner. 5

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE: A**

# BURNPUR RIVERSIDE SCHOOL, BURNPUR
## PERIODIC TEST-1 : [2024-2025]
## INFORMATION TECHNOLOGY (802)
## CLASS – XII

**Time: 1 ½ Hrs.** **Maximum Marks: 40**

==========

***General Instructions:***

1. *Please read the instructions carefully.*
2. *This Question Paper consists of **10 questions** in two sections – Section-A & Section-B.*
3. *Section-A has Objective type questions whereas Section-B contains Subjective type questions.*
4. ***All questions are compulsory.***
5. *All questions of a particular section must be attempted in the correct order.*
6. ***SECTION-A : OBJECTIVE TYPE QUESTIONS***

   ***(19 MARKS)***

   i. *This section has 02 questions.*
   ii. *There is no negative marking.*
   iii. *Do as per the instructions given.*
   iv. *Marks allotted are mentioned against each question/part.*

7. ***SECTION-B : SUBJECTIVE TYPE QUESTIONS***

   ***(21 MARKS)***

   i. *This section contains 08 questions.*
   ii. *Do as per the instructions given.*
   iii. *Marks allotted are mentioned against each question/part.*

==========

## SECTION-A: OBJECTIVE TYPE QUESTIONS

1. **Answer the following 10 questions on Employability Skills (1 x 10 = 10 marks)**

i. What is a Startup? 1

ii. Convert the following sentence into passive voice. 1
"I ate the strawberry pie."

iii. Identify the type of sentence: 1
'Always be disciplined in class.'
a. Declarative Sentences b. Interrogative sentences
c. Imperative Sentences d. none

iv. Identify the conjunction from the sentence given below: 1
'He works hard but could not get good results.'
a. get b. works c. but d. none

v. When women take initiative and do business they are called as _____. 1
a. Ladies Entrepreneurs b. Women Entrepreneurs
c. Girl Power Entrepreneurs d. none

vi. Reema owns a construction company and takes risky decisions everyday, with regard to her work. Reema is an _____. 1
a. Entrepreneur b. Wage employee person
c. Skilled worker d. none

vii. _____ skills is the ability to convey ideas and feelings either by speaking or by writing. 1

viii. The ability to act in a situation before others is _____. 1

ix. State TRUE or FALSE: 1
"Active listening helps others to feel comfortable while sharing information with us."

x. State TRUE or FALSE: 1
"An entrepreneur should be flexible and open to change according to the situation."

2. **Answer the following 9 questions (1 x 10 = 9 marks)**

i. What do you understand by 'Record' in a DBMS? 1

ii. Write down the Indian e-governance portal. 1

iii. _____ command is used to delete a table from a database. 1
a. DELETE TABLE b. REMOVE TABLE
c. DROP TABLE d. none

iv. A table can also join to itself, which is known as ____. 1
a. True Join b. Self Join c. Primary Join d. none

v. Never share ____ with anyone while doing any online transaction. 1
a. OTP b. PIN c. Both (a) & (b) d. none

vi. In 'https://', what does 's' stands for? 1
a. standard b. standalone c. secure d. none

vii. The functions that are used to apply certain mathematical functions on a group of values in a database are called ____. 1

viii. NeGP stands for ____. 1

ix. State TRUE or FALSE: 1
"A database is created by creating tables."

## SECTION-B: SUBJECTIVE TYPE QUESTIONS

### Answer the following 3 questions on Employability Skills (2 x 3 = 06 marks)

3. What are the things you should do at the beginning of an interview? (Write any two points) 2

4. Mention four qualities that motivate an entrepreneur. 2

5. What do you understand by 'Family Business Entrepreneurs'? 2

### Answer the following 2 questions (2 x 2 = 04 marks)

6. The services of the e-governance portal can be broadly classified into two categories. Name them. 2

7. The following commands are giving errors. Write the correct MYSQL commands. 2

**(a) alter table student delete marks;**

**(b) select * from employee where name ='%s%';**

### Answer the following 1 question (3 x 1 = 03 marks)

8. What are the three things needed for making a web application operational. Also, mention their functions. 3

## Answer the following 2 questions
## (4 x 2 = 08 marks)

9. Write SQL commands for the following on the basis of given table DOCTOR table from (i) to (iv) 4

DOCTOR

| D_ID | D_Name | Gender | Specialization | Address | Charge |
|---|---|---|---|---|---|
| D/101 | T. Rathore | M | Heart | Kolkata | 1600 |
| D/102 | N. Sen | F | Lungs | Durgapur | 1200 |
| D/103 | M. Singh | F | Skin | Asansol | 1500 |
| D/104 | S. Roy | M | Heart | Kolkata | 1300 |
| D/105 | S. Ghosh | F | Lungs | Kolkata | 1000 |

(i) To display the details of the doctors in ascending order of their Charge.
(ii) The charge of doctors specialized in Heart are to be increased by 1000.
(iii) To display the names of male doctors only.
(iv) A new data is to be inserted into the table with the following details:
(D/106, "M. Mondal", "M", "Heart", "Howrah", 1200);

10. Consider the following STUDENT table and answer the questions (i) to (iv) given below. 4

| Roll_No | Name | Class | Sec | Stream |
|---|---|---|---|---|
| 25 | Aman | 12 | A | SCI |
| 20 | Ruchika | 12 | E | COMM |
| 22 | Sonali | 11 | B | SCI |

i) What is the degree of the STUDENT relation.
ii) What is the cardinality of the STUDENT relation.
iii) Write down the Relation Schema of the STUDENT relation.
iv) Name the constraint that should be applied on the field named as Roll_No.

==========

**Name: _____ Sec: ____ Roll No.: ____**

**CODE: B**

# BURNPUR RIVERSIDE SCHOOL, BURNPUR
## PERIODIC TEST-1 : [2024-2025]
## INFORMATION TECHNOLOGY (802)
## CLASS – XII

**Time: 1 ½ Hrs.** **Maximum Marks: 40**

==========

***General Instructions:***

1. *Please read the instructions carefully.*
2. *This Question Paper consists of **10 questions** in two sections – Section-A & Section-B.*
3. *Section-A has Objective type questions whereas Section-B contains Subjective type questions.*
4. ***All questions are compulsory.***
5. *All questions of a particular section must be attempted in the correct order.*
6. ***SECTION-A : OBJECTIVE TYPE QUESTIONS***

   ***(19 MARKS)***

   i. *This section has 02 questions.*
   ii. *There is no negative marking.*
   iii. *Do as per the instructions given.*
   iv. *Marks allotted are mentioned against each question/part.*
7. ***SECTION-B : SUBJECTIVE TYPE QUESTIONS***

   ***(21 MARKS)***

   i. *This section contains 08 questions.*
   ii. *Do as per the instructions given.*
   iii. *Marks allotted are mentioned against each question/part.*

==========

## SECTION-A: OBJECTIVE TYPE QUESTIONS

1. **Answer the following 10 questions on Employability Skills (1 x 10 = 10 marks)**

i. Who are social entrepreneurs? 1

ii. Convert the following sentence into passive voice. 1
"Reema can do skydiving."

iii. Identify the type of sentence: 1
'He loves swimming'
a. Declarative Sentences b. Interrogative sentences
c. Imperative Sentences d. none

iv. Identify the preposition from the sentence given below: 1
'I prefer coffee to tea.'
a. prefer b. to c. I d. none

v. ____ means Entrepreneurs monitor that everything is carried out in their organisations as per their decisions but at the same time gives flexibility to the employees. 1
a. Effective Monitoring b. Adaptability
c. Assertiveness d. none

vi. Priya believes that she does not have the ability to work with a team when she starts her business. The barrier she is facing is known as ____. 1
a. Getting capital b. Self-doubt
c. Risk-taking d. none

vii. ____ skills are a two-way process through which information or messages are exchanged between individuals using language, symbols, signs or behaviour. 1

viii. A ____ Entrepreneur is one who provides service to customers. 1

ix. State TRUE or FALSE: 1
"Active listening helps us to find solutions to the problems around us."

x. State TRUE or FALSE: 1
"To be successful, the entrepreneur should have a clear vision of his new venture."

2. **Answer the following 9 questions (1 x 9 = 9 marks)**

i. What do you understand by 'Field' in a DBMS? 1

ii. In which year NICNET was launched? 1

iii. ____ command is used to create a new table or relation. 1

a. NEW TABLE b. CREATE TABLE

c. ADD TABLE d. none

iv. ____ key constraint is used to establish a relationship between two tables. 1

v. Which of the following are examples of online reservation systems? 1

a. Airline ticket b. Bus ticket c. both (a) & (b) d. none

vi. If you are using the latest version of your browser, the address bar or the name of the site will appear in ____. 1

a. blue b. green c. red d. none

vii. DCL stands for ____. 1

viii. DEITY stands for ____. 1

ix. State TRUE or FALSE: 1

"DBMS maintain Program-Data Independence."

## SECTION-B: SUBJECTIVE TYPE QUESTIONS

### Answer the following 3 questions on Employability Skills (2 x 3 = 06 marks)

3. What are the things you should do during an interview? (Write any two points) 2

4. Who are Technical Entrepreneurs? 2

Technical Entrepreneurs are also known as what?

5. What do you understand by 'First Generation Entrepreneurs'? 2

### Answer the following 2 questions (2 x 2 = 04 marks)

6. How e-Governance does empowers the citizens. Give 2 points. 2

7. The following commands are giving errors. Write the correct MySQL commands. 2

**(a) SELECT AVERAGE(MARKS) FROM STUDENT;**

**(b) UPDATE EMPLOYEE SALARY = SALARY + SALARY*0.1;**

## Answer the following 1 question
## (3 x 1 = 03 marks)

8. *Before entering the payment details on any website, ensure that the site is secure.* 3

Mentions three points that are to be checked before entering the payment details on any website to ensure that the site is secure.

## Answer the following 2 questions
## (4 x 2 = 08 marks)

9. Write SQL commands for the following on the basis of given table PATIENT table from (i) to (iv) 4

PATIENT

| P_ID | P_Name | Gender | Problem_Area | Address | Cost |
|---|---|---|---|---|---|
| P/101 | T.Rathore | M | Heart | Asansol | 50000 |
| P/102 | N.Sen | F | Lungs | Durgapur | 95000 |
| P/103 | M.Singh | F | Skin | Asansol | 25000 |
| P/104 | S.Banerjee | M | Pancreas | Durgapur | 85000 |
| P/105 | S.Ghosh | F | Joints | Durgapur | 30000 |

(i) To display the details of the patients in descending order of their Problem_Area.

(ii) The cost of Durgapur patients are to be increased by 500.

(iii) To display the names of female patients only.

(iv) A new data is to be inserted into the table with the following details:
(P/106, “H. Das”, “M”, “Heart”, “Durgapur”, 50500);

10. Consider the following TEACHER table and answer the questions (i) to (iv) given below. 4

| T_Code | T_Name | Subject |
|---|---|---|
| 16 | A. Das | ENG |
| 93 | P. Roy | MATHS |
| 22 | M. Sen | IT |
| 56 | S. Khan | ECO |

i) What is the degree of the TEACHER relation.
ii) What is the cardinality of the TEACHER relation.
iii) Write down the Relation Schema of the TEACHER relation.
iv) Name the constraint that should be applied on the field named as T_Code.

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**CODE- A**

**Name: _____ Sec: ____ Roll No.: ____**

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST I: [2024-2025]

ACCOUNTANCY

CLASS: XII

**Time: 1 ½ Hours** **Maximum Marks: 40**

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General Instruction:

Read the following instructions very carefully and strictly follow them.

(i) This question paper consists of **17** questions. All questions are **compulsory.**

(ii) Question no. 1-10 are very short type questions carrying 1 mark each.

(iii) Question no. 11-12 are short answer type- I questions carrying 3 marks each.

(iv) Question no. 13-15 are short answer type- II questions carrying 4 marks each.

(v) Question no. 16-17 are long answer type questions carrying 6 marks each.

(vi) Attempt all parts of a question together.

1. If the new partner brings his share of goodwill in cash, it will be shared by old partners in : 1

   (a) Old profit-sharing ratio. (b) New profit-sharing ratio.

   (c) In capital ratio. (d) Ratio of sacrifice.

2. Partners' Current Account has _____. 1

   (a) Credit Balance (b) Debit Balance

   (c) Either (a) or (c) (d) Neither Debit or Credit Balance

3. Any change in partnership is called: 1

   (a) Dissolution of a partnership firm.

   (b) Reconstitution of partners.

   (c) Reconstitution of a partnership firm.

   (d) None of the options are correct.

4. In the absence of any provision in interest on capital will be calculated for: ___. 1

(a) One year (b) One month

(c) No interest (d) Six month

5. If at the time of admission, some profit and loss account balance appear in the books, it will be transferred to: 1

(a) All partners' Capital A/cs

(b) Revaluation A/c

(c) Old partners' Capital A/cs

(d) Profit and Loss Adjustment A/cs

6. For allowing interest on capital which a/c will be credited? 1

(a)Interest on cap A/c (b) Partners capital a/c

(c) Partners current A/c (d) Both (a) & (c)

7. Which clause should be mentioned in the partnership deed? 1

(a) Description of the firm.

(b) Nature of the business.

(c) Description of the partners.

(d) All of the options are correct.

8. If the incoming partner brings the amount of goodwill in cash and also a balance exists in the goodwill account, this goodwill account is written off among the old partners in: 1

(a) The old profit-sharing ratio.

(b) The sacrificing ratio.

(c) The gaining ratio.

(d) The new profit-sharing ratio.

9. Which one of the following is not an essential feature of a partnership? 1

(a) There must be a business.

(b) The business must be carried on for profits.

(c) The business must be carried on by all the partners.

(d) There must be an agreement.

10. For transferring commission allowed to partner to P/L Appropriation A/c---------- A/c are debited. 1

(a) P/L Appropriation A/c (b)Commission A/c.

(c)Partners capital A/c (d)Partners current A/c

11. Ram and Sushant are partners in a firm sharing profits in the ratio of 3:2. They admit Ratul as a new partner. Ram sacrificed ¼ of his share and Sushant 1/3 of his share in favour of Ratul. Calculate new profit-sharing ratio of all partners. 3

12. John a partner in Modern Tour and Travels withdrew money during the year ending March 31, 2022 from his capital account for his personal use. Calculate Interest on Drawings in each of the following alternative situations, if rate of interest is 9% p.a. 3

(a) If he withdrew ₹3,000 p.m. at the beginning of each month.

(b) If he withdrew ₹3,000 p.m. at the end of each month.

13. The need for valuation of goodwill arises at the time of sale of business. But in case of a partnership, it may arise in other circumstances also. 4

(i) State such circumstances when valuation of goodwill is required.

(ii) What factors are affecting value of goodwill?

14. Sammer and Yasmin are partners with capital of ₹ 15,00,000 and ₹10,00,000 respectively. They agreed to share profits and loss in the ratio of 3:2. Show how the following transactions will be recorded in the capital accounts of the partners if they are following Fixed capital method. The books are closed on 4

31st March every year.

| Particulars | Sameer | Yasmin |
|---|---|---|
| Additional capital introduced on 1.10.2019 | (₹) 3,00,000 5% p.a. | (₹) 2,00,000 5% p.a. |
| Interest on capital | 30,000 | 20,000 |
| Drawings during the year | 1,800 20,000 | 1,200 ------- |
| Interest on drawings | 10,000 | 7,000 |
| Salary | 60,000 | 40,000 |
| Commission | | |
| Share in profit | | |

15. Explain the importance of partnership agreement. 4

16. A and B are partners in a firm sharing profits and losses in the ratio of 3:2. They admit C into partnership for 1/3rd share of profits. C brings capital of ₹20,000. Goodwill is valued at ₹15,000. Show necessary entries that shall be made in the following cases: 6

(i) Goodwill does not appear in the books
(ii) Goodwill appears in the books at ₹ 9,000
(iii) Goodwill appears in the books at ₹ 18,000

17. Amitabh and Babul are partners sharing profits and losses in the ratio of 3:2 with capital of ₹ 50,000 and ₹ 30,000 respectively. Following are allowed in the firm: 6

i. Interest on capital will be 6% p.a.
ii. Babul will be allowed an annual salary of ₹ 2,500.
iii. Managers will be allowed commission of ₹ 5,000.
iv. Amitabh has given a loan on April 01, 2019 of ₹ 50,000 but there is no agreement regarding this.

Prepare P/L Appropriation A/c and Partners' Capital A/c for the year ending March 31, 2020. Profit for the year 2019-2020 is ₹22,250.

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**Name: _____ Sec: ____ Roll No. : ____**

**CODE : B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**

**PERIODIC TEST – I : (2024-2025)**

**ACCOUNTANCY**

**CLASS – XII**

**Time: 1 ½ Hrs.** **Maximum Marks : 40**

==========

***General Instructions :***

*Read the following instructions carefully and follow them:*

*(i) This question paper contains 17 questions.*
*All questions are compulsory.*

*(ii) Question no. 1 to 10 multiple choice questions.*
*Each question carries 1 mark.*

*(iii) Question no. 11 and 12 are short answer type questions.*
*Each question carries 3 marks.*

*(iv) Question no. 13 to 15 are long answer type-I questions.*
*Each question carries 4 marks.*

*(v) Question no. 16 to 17 are long answer type-II questions.*
*Each question carries 6 marks.*

*(vi) There is no overall choice. However, an internal choice has been provided in few questions in each of the parts.*

*(vii) All parts of a question should be attempted at one place.*

==========

1 The goodwill of afirm on the basis of 4 years' purchase of super profit is ₹ 1,08,000. The capital employed by the firm is ₹ 4,00,000 and the normal rate of return s 10%. What is the average profit of the firm? 1
(a) ₹40,000 (b) ₹47,000 (c) ₹67,000(d) none of these

2. A and N are partners having opening capitals of ₹ 5,00,000 each without a partnership deed. N on 1st June,2023 introduced further capital of ₹ 100,000 and advanced loan of ₹ 1,00,000 to the firm o 1st October,2023. Interest payable to N will be 1
(a) ₹ 39,000 (b) ₹ 36,000 (c) ₹ 3,000 (d) Nil

OR

Which of the following is not an essential feature of partnership?
a) An agreement, oral or written, should exist among the partners
(b) Agreement should be to carry on business
(c) All the partners should contribute capital in the firm
(d) there should be at least two partners.

3. T and R, partners in a firm, change their profit sharing ratio from equal to 4:3, so sacrifice or gain made by T will be: 1
(a) 1/7(sacrifice) (b) 1/6 (gain)(c) 1/14 (gain) (d) 1/14 (sacrifice)

4. A and V are partners in a firm. A is entitled to get a commission of 25% of net profit after charging such commission. Net profit before charging such commission is ₹ 60,000. Calculate A's commission 1
(a) ₹ 12,500 (b)₹12,000 (c) ₹15,000 (d)₹20,000

5. X, Y and Z were partnerssharing profits in the ratio 2:2:1. They decided to share future profit in the ratio of 7:5:3 with effect from 1st April 2022. Their Balance Sheet as on that date showed a balance of ₹ 45,000 in Advertisement Suspense Account. The amount to be debited respectively to the capital accounts of X, Y and Z for writing off the amount in Advertisement Suspense Account will be 1
(a) ₹ 18,000 ₹ 18,000 ₹ 9,000 (b) ₹ 21,000 ₹ 15,000 ₹9,000
(c) ₹ 22,500 ₹22,500, Nil (d) none of these

OR

P, R and Sare partners. Before changing their profit sharing ratio to 5:3:2, they were sharing profits equally. Workmen Compensation Reserve existed at ₹ 100,000 against which a claim existed at ₹ 20,000 Amount that will be credited to their capital accounts in their old profit sharing ratio will be
(a) ₹ 80,000 (b) ₹ 1,00,000
(c) ₹ 1,00,000 credited and 20,000 debited (d) none of these

6. X, Y and Z are partners sharing profit in the ratio 6:4:1. X guaranteed Z of minimum profit of ₹15,000. Firm had profit of ₹ 99,000. X's share in profit: 1
(a) ₹ 15,000 (b) ₹ 30,000 (c) ₹ 45,000 (d) 48,000

OR

When a partner withdraws ₹ 5,000 in the beginning of each month upto 1 year, then interest on drawings @ 5% pa will be
(a) ₹ 1,625 (b) ₹1,675 (c)₹ 2,500 (d) none of these.

7. R and V are partners sharing profits and losses of 3:2. They admitted Y as a new partner. R surrendered $2/5^{th}$ of his share and V $1/5^{th}$ of his share in favour of Y. The sacrificing ratio will be 1
(a) 3:5 (b) 3:2 (c) 3:1 (d) none of these

8. A and B are partners sharing profits and losses in the ratio of 5:3. On $1^{st}$ April, 2021 they admitted C as a new partner and new ratio was decided as 3:2:1. Goodwill of the firm was valued at ₹ 3,60,000. Ccould not bring any amount for his share of goodwill. Amount of goodwill share to be credited to A and B A/c will be 1
(a) ₹ 37,500 and ₹ 22,500 respectively
(b) ₹ ₹ 30,000 and ₹ 30,000 respectively
(c) ₹ 36,000 and ₹ 24,000 respectively
(d) ₹ 45,000 and ₹ 15,000 respectively

9. P and Q are partners sharing profits in the ratio 3:2, having fixed capitals ₹ 4,00,000 and ₹ 2,00,000 in the year 2022. As per partnership Deed, interest on capital is charge on profits. The amount of interest on capital will be 1
(a) P ₹ 32,000 Q ₹ 16,000 (b) P ₹ 20,000 Q ₹ 10,000
(c) P ₹ 31,200 Q ₹ 20,800 (d) none of these

10. A and B are partners sharing profits in the ratio 2:3, having fixed capitals ₹ 3,00,000 and ₹ 2,00,000 respectively. After closing books for the year 2023, the accountant realized that interest on capital was provided @ 6% pa instead of @8%pa. The amount of adjustment entry will be 1
(a) ₹ 2,000 (b) ₹ 4,000 (c) ₹ 6,000 (d) none of these

11. A and B are partners sharing profits and losses in the ratio 3:2. C is admitted as a new partner. C brings ₹ 20,000 as goodwill. Distribute goodwill between old partners in the following cases: 3
(a) C is admitted for $1/5^{th}$ share which he gets equally from A and B
(b) A contributes 3/20t and B contributes $1/20^{th}$ share in favour of C.

12. X and Y started a partnership business on $1^{st}$ April 2023. Their capital contributions were ₹ 2,00,000 and ₹1,50,000 respectively. The partnership deed provided 3
(a) Interest on capital @10%pa
(b) X to get a salary of ₹ 2,000 p.m. and Y ₹ 3,000 p.m.

(c) Profits are to be shred in the ratio of 3:2.

The profits for the year ended 31st March, 2024 before making above appropriations were ₹ 2,16,000. Interest on drawings amounted to ₹ 2,200 for X and ₹ 2,500 for Y.

Prepare Profit and Loss Appropriation A/c.

OR

A and B are partners in a firm sharing profits in the ratio 4:3. Their capitals on 1st April, 2023 were ₹ 80,000 and ₹ 60,000 respectively. The partnership deed provided as follows:

(a) Interest on capital and drawings will be allowed and charged @12%pa and 10%pa respectively.

(b) A and B will be entitled to get monthly salary of ₹ 2,000 and ₹ 3,000 respectively.

The profits for the year ended 31st March, 2023 before making above appropriations were ₹ 1,00,300. The drawings of A and B amounted to ₹ 40,000 and ₹ 50,000 respectively. Interest on A's drawings was ₹ 2,000 and B's drawings ₹ 2,500.

Prepare Profit and Loss Appropriation A/c of A and B for the year ended 31st March, 2024 assuming that the capitals of the partners were fluctuating.

13. X,Y and Z are partners sharing profits and losses equally. They decided that in future Z will get 1/5th share in profits with effect from 1stApril,2022. On the day of change, following is their balance sheet: 4

Balance Sheet as on 31st March, 2022

| LIABILITIES | | ₹ | ASSETS | | ₹ |
|---|---|---|---|---|---|
| Creditors | | 18,400 | Cash | | 6,000 |
| | | | Debtors | 22,500 | |
| Capital A/cs | | | Less Provision for | | |
| X | 12,500 | | Doubtful Debts | 4,000 | 18,500 |
| Y | 12,500 | | Stock | | 12,500 |
| Z | 9,000 | | Machinery | | 5,400 |
| | | 34,000 | Building | | 10,00 |
| | | 52,400 | | | 052,40 |
| | | | | | 0 |

On this date, Buildings have been valued at ₹ 15,000, Stock to e reduced by ₹ 1,500 and provision for doubtful debts to be reduced by ₹ 1,000.

Pass journal entries in the books of the firm regarding the revaluation of assets and prepare Revaluation A/c.

14. M, P and A were partners in a firm having fixed capital of ₹ 80,000 and ₹ 40,000 and ₹ 50,000 respectively sharing profits in the ratio of 7:6:4. The rate of interest on capital was agreed at 10% p.a. but was wrongly credited to them as 12% p.a. Pass the necessary adjustment entry. 4

15. R, S and T were partners sharing profits in the ratio of 5:3:2 with the invested capitals of ₹ 20,000, ₹ 12,000 and ₹ 8,000 respectively. Partners were entitled for the interest on capital @5%pa. However T was guaranteed by R and S that he will not be getting profit less than ₹ 4,000 at any cost in any year. During the year the firm had earned a profit of ₹ 10,000. R and S withdrew ₹ 1,500 and ₹ 1,200 respectively for personal use. Profit earned by the firm was calculated before charging interest on capital. 4
Prepare Profit and Loss Appropriation A/c.

16. R, B and C were partners in a firm sharing profit and losses in the ratio 2:3:1. With effect from 1st April, 2023 they decided to share future profits and losses in the ratio of 3:2:1. On that ate their Balance Sheet showed a debit balance of ₹ 24,000 in Profit and Loss Account and a balance of ₹ 1,44,000 in General Reserve. 6
It was also agreed that:
(a) The goodwill of the firm be valued at ₹ 1,80,000
(b) The Land (having book value ₹ 3,00,000) will be valued at ₹ 4,80,000.
Pass the necessary journal entries for the above changes.

OR

A,B and C were partners in a firm sharing profits in the ratio of 3:2:1. Their Balance Sheet as on 31st March, 2023 was as follows.

Balance Sheet as on 31st March, 2023

| LIABILITIES | | ₹ | ASSETS | ₹ |
|---|---|---|---|---|
| Creditors | | 1,00,000 | Land | 1,00,000 |
| Bills Payable | | 40,000 | Building | 1,00,000 |
| General Reserve | | 60,000 | Plant | 2,00,000 |
| Capital A/cs | | | Stock | 80,000 |
| | A | | Debtors | 60,000 |
| 200,000 | | | Bank | 10,000 |
| | B | 3,50,000 | | |
| 100,000 | | 5,50,000 | | 5,50,000 |
| | C | | | |
| 50,000 | | | | |

A,B and C decided to share the future profits equally, w.e.f., 1st April,2023. For this it was agreed that
(a) Goodwill of the firm be valued at ₹ 3,00,000.
(b)Land be valued at ₹ 1,60,000 and building be depreciated by 6%
(c)Creditors of ₹ 12,000 were not likely to be claimed and hence to be written off.
Prepare Revaluation A/c, Partners' Capital A/c and Balance Sheet of the reconstituted firm.

17. S and Vwere partners in a firm sharing profits in the ratio 3:2. The balances in their capital and current accounts as on 1st April,2023 were as under: 6

| Particulars | S (₹) | V(₹) |
|---|---|---|
| Capital Accounts | 3,00,000 | 2,00,000 |
| Current Account | 1,00,000(Cr.) | 28,000(Dr.) |

The partnership deed provided that S was to be paid a salary of ₹ 5,000 per month whereas V was to get a commission of ₹ 30,000 for the year.
Interest on capitalwas to be allowed @ 8% p.a. whereas interest on drawings was to be charged @ 6% pa. The drawings of S were ₹ 3,000 at the beginning of each quarter while V withdrew ₹ 30,000 on 1st September, 2023. The net profit of the firm for the year ended 31st March,2024 before making above adjustments was ₹1,20,000.
Prepare Profit and Loss Appropriation Account and Partners' Capital and Current Account in the books of the firm.

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE-A**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**

**PERIODIC TEST-I: [2024-2025]**

**BUSINESS STUDIES**

**CLASS: XII**

**Time: 1 ½ Hours** **Maximum Marks: 40**

==========

***General Instruction:***

*Read the following instructions very carefully and strictly follow them.*
*(i) This question paper consists of **17** questions. All questions are **compulsory.***
*(ii) Marks are indicating against each question.*
*(iii) Answers should be brief and to the point.*
*(iv) Answer to the question carrying 3 marks may be from 50-75 words.*
*(v) Answer to the question carrying 4 marks may be about150words.*
*(vi) Answer to the question carrying 6 marks may be about 200 words*
*(vii) Attempt all parts of a question together.*

==========

1. Management is essential for the organizations which are 1

(a) Non-profit organizations (b) Service organizations
(c) Social organizations (d) All of the above

2. Which of the following statements is true with reference to principles of management? 1

a) The principles of management have evolved.
b) The principles of management are yet to be evolved.
c) The principles of management are in the continuous process of evolution.
d) None of the above.

3. 2. Which of the following statements best defines the techniques of management? 1

a) It is a set of guidelines to take decisions and actions.
b) It is a procedure which involves a series of steps to be taken.
c) They are general rules for behavior of individuals.
d) None of the above.

4. _____ Principle of management advocates that employee turnover should be minimized to maintain organizational efficiency. 1

a) Remuneration of employee b) Diversity of work
c) Order d) Stability of personnel

5. Read the following statement: Assertion (A) and Reason (R). Choose the correct alternative from those given below: 1

Assertion (A): Management is concerned with efficient use of resources.
Reasoning(R): For management both efficiency and effectiveness needs to be balanced.
(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)
(c) Assertion (A) is true but Reason (R) is false
(d) Assertion (A) is false but Reason (R) is true

6. Management translates the works to be carried out in terms of goals to be achieved and assigns the means to achieve it. This statement relates to: 1

a) Management of work b) Management of people
c) Management of operations d) All of the above

7. Which of the following statement is incorrect: 1

a) Management is considered both growth and survival of organization.

b) Management is careless about employee's personal improvement.

c) Management is goal oriented.

d) Management is concern to fulfil social objectives.

8. Following are the functions of management except one: 1

a) Organizing b) Planning

c) Directing d) Profit motive

9. Match the various features of business environment given in column I with their respective explanation in column II. 1

| Column I | Column II |
|---|---|
| A. Dynamic nature | i. Environment is a phenomenon that is relatively easier to understand in parts but difficult to grasp in its totality. |
| B. Complexity | ii. Business environment differs from country to country and even region to region. |
| C. Relativity | iii. Business environment keeps on changing, whether in terms of technology improvement or shifts in consumer's preference. |

a) A-iii B-i C-ii b) A-ii B-iii C-i

c) A-iii B-ii C-i d) A-i B-ii C-iii

10. It is an example of general forces of business environment: 1

a) Investors b) Suppliers

c) Government d) Competitors

11. Sirsha is CEO of Afran pvt ltd company. 3

Which level of management Sirsha is working? Write any two functions that Sirsha must perform for organization.

12. Identify the following concepts: 3

a. RBI declared lower interest rates on housing loans.
b. Alcohol beverages are prohibited to be advertised on media controlled by government.
c. Availability of e-books.

13. Explain the following principles of management: 4

i) Authority & Responsibility
ii) Decentralization

14. State positive impact of business environment for every business organization. 4

15. State and explain two objectives of management 4

16. Explain the following technique of management: 6

i) Fatigue study ii) Motion Study iii) Time study

17. Why do you think management is also same as science? 6

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE-B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-I: [2024-2025]**
**BUSINESS STUDIES**
**CLASS: XII**

**Time: 1 ½ Hours** **Maximum Marks: 40**

==========

***General Instruction:***

*Read the following instructions very carefully and strictly follow them.*
*(i) This question paper consists of **17** questions. All questions are **compulsory.***
*(ii) Marks are indicating against each question.*
*(iii) Answers should be brief and to the point.*
*(iv) Answer to the question carrying 3 marks may be from 50-75 words.*
*(v) Answer to the question carrying 4 marks may be about150words.*
*(vi) Answer to the question carrying 6 marks may be about 200 words*
*(vii) Attempt all parts of a question together.*

==========

1. An organization is a collection of diverse individuals with different needs. Which feature of management is highlighted in above statement? 1
a) Management helps in a group activity
b) Management helps in achieving personal objectives
c) Management helps in achieving development of society
d) Management helps in increasing efficiency

2. Sangeeta visited Smile dental clinic for treatment of toothache. She observed that the receptionist was stated at the reception desk, the place fixe for her. Dental instruments were laid nearly in dental instrument trays and the used instruments were placed in the sterilization area. There was a fixed place for everything and it was prevented there. There was no hinderance in the work of the dentist and she was working with her maximum efficiency. 1
The principle of management followed at the Smile dental clinic are:
a) Equity b) Order
c) Discipline d) Initiative

3. 2. _____ refers to the obligation of a subordinate to properly perform the assigned duty. 1
a) Authority b) Responsibility

c) Accountability d) Delegation

4. _____ principle of management advocates that employee turnover should be minimised to maintain organisational efficiency. 1

a) Remuneration of employee b) Diversity of work
c) Order d) Stability of personnel

5. Read the following statement: Assertion (A) and Reason (r). Choose the correct alternative from those given below: 1
Assertion(A): Management is concerned with efficient use of resources.
Reasoning(R): For management both efficiency and effectiveness needs to be balanced.
(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
(b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)
(c) Assertion (A) is true but Reason (R) is false
(d) Assertion (A) is false but Reason (R) is true

6. Alo a mobility platform is the process of laying off 400-500 employees in a move aimed at driving cost efficiency. 1
Which objective of management will the firm not be able to achieve by carrying out this process.
a) Efficiency b) Social
c) Profit d) Survival

7. Which of the following statement is incorrect: 1
a) Management is pervasive.
b) Management is goal oriented
c) Management is individual activity.
d) Management is both science and art.

8. How are principles of management formed: 1
a) In a laboratory
b) By experience of managers

c) From customers' experience
d) By propagation of social scientists

9. Match the various features of business environment given in column I with their respective explanation in column II. 1

| Column I | Column II |
|---|---|
| A. Dynamic nature | i. Environment is a phenomenon that is relatively easier to understand in parts but difficult to grasp in its totality. |
| B. Complexity | ii. Business environment differs from country to country and even region to region. |
| C. Relativity | iii. Business environment keeps on changing, whether in terms of technology improvement or shifts in consumers preference. |

a. A-iii B-i C-ii
b. A-ii B-iii C-i
c. A-iii B-ii C-i
d. A-I B-ii C-iii

10. Identify feature of business environment which is highlighted when changes are taking place too frequency and it became difficult to predict the future? 1
a)Uncertainty b) Complexity
c) Inter-relatedness d) Relativity

11. Mita is recruited as manager in HR Solution pvt ltd company. 3
Which level of management Mita is working? Write any two functions that Mita must perform for organization.

12. In order to survive and also to earn profit in long run a business organization must consider various dimension of business environment. 3
In the light of the above statement list out any three dimension of business environment with one example of each dimension.

13. Explain the following principles of management 4
i) Unity of Command ii) Unity of direction

| | | |
|---|---|---|
| 14. | Explain how does the understanding of business environment help the management in following:<br>i. Tapping useful resources ii. Coping with rapid changes | 4 |
| 15. | 'Coordination is needed at all levels of management and it is the responsibility of all mangers.'<br>In light of this statement, explain any four features of coordination. | 4 |
| 16. | Explain the following technique of management:<br>i) Fatigue study ii) Motion Study iii) Time study | 6 |
| 17 | Explain features of management that do not establish it as a profession. | 6 |

==========

**Name: _____ Sec: ____ Roll No.: ____**

**CODE : A**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : (2024-2025)**
**ECONOMICS(030)**
**CLASS : XII**

**Time: 1½ Hrs.** **Maximum Marks : 40**

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**General Instructions :**

*1) This paper contains 20 Multiple Choice Questions type questions of 1mark each.*
*2) This paper contains 2 Short Answer Questions type questions of 3 marks each to be answered in 60 to 80 words.*
*4) This paper contains 1 Short Answer Questions type questions and 1 Case Based question of 4 marks is to be answered in 80 to 100 words*
*5) This paper contains 1 Long Answer Questions type questions of 6 marks each to be answered in 100 to 150 words.*
*6) All questions are compulsory.*

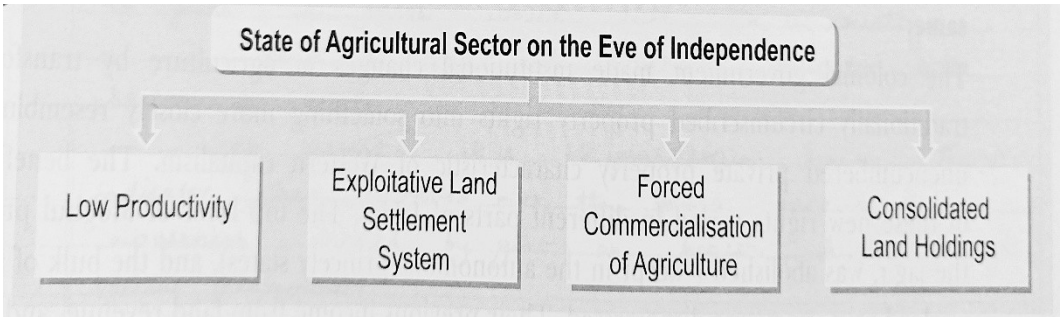
==========

**1.** Partial equilibrium relates to_____ **1**

**Alternatives:**

a. Microeconomics b. Macroeconomics
c. Both a and b d. None of these

**2. On the basis of the below chart answer the following question:** **1**




Which of the following is not true about the state of the agriculture sector in India on the eve of independence?

a. Low productivity
b. Exploitative land settlement
c. Forced commercialisation of agriculture
d. Consolidated land holdings

**3.** Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:- **1**

**Assertion(A)-Population of a country is a stock variable**
**Reason(R)- Higher population, higher is the exports of a country.**
**Alternatives:**

a. Both Assertion (**A**) and Reason(**R**) are true and Reason(**R**) is the correct explanation of Assertion (**A**).
b. Both Assertion (**A**) and Reason(**R**)are true but Reason(**R**) is not the correct explanation of Assertion (**A**).
c. Assertion (**A**) is true but Reason (**R**) is false.
d. Assertion (**A**) is false but Reason(**R**) is true.

**4.** Read the following statements carefully. **1**

**Statement 1: Agriculture subsidy is a huge burden on government finances.**
**Statement 2: Subsidies do not allow the market price to dictate the supply of goods.**

In light of the given statements, choose the correct alternative from the following:

a. Statement 1 is true and Statement 2 is false
b. Statement 1 is false and Statement 2 is true
c. Both statements are true
d. Both statements are false

**5.** Read the following statements carefully. **1**

From the set of the events given in the column I and corresponding facts given in the column II , choose the correct pair of statements:-

| Column I | Column II |
|---|---|
| A. Supply of money | 1. A flow concept |
| B. M1 measure of money supply | 2. Currency + DD |
| C. Demand deposits | 3. Chequeable deposits |
| D. Net demand deposits. | 4. Not a part of MS. |

**Codes**

a. A-1
b. B-2
c. C-3
d. D-4

**6.** In which of the following ways did the British Raj impact the Indian economy the most? **1**

a. The British made India and exporter of cotton from an exporter of cloth that led to large scale unemployment

b. Establishment of railway by the British provided short term employment for many Indians

c. The British expanded their army with Indian sepoys and fought in way overseas

d. The British provided tax concessions to rural farmers and landless labourers

**7.** **1**

From the set of the events given in the column I and corresponding facts given in the column II , choose the correct pair of statements:-

| Column I | Column II |
|---|---|
| A. Cooperative farming | i. Policy of Reliance on import substitution |
| B. Karve committee | ii. Extreme bargaining power of the small holders |
| C. Inward looking trade strategy | iii. Aimed at promoting regional equality |
| D. Licensing policy of the government | iv. 1955 |

**Codes**

a. A-ii, B-i, C-iv, D-iii

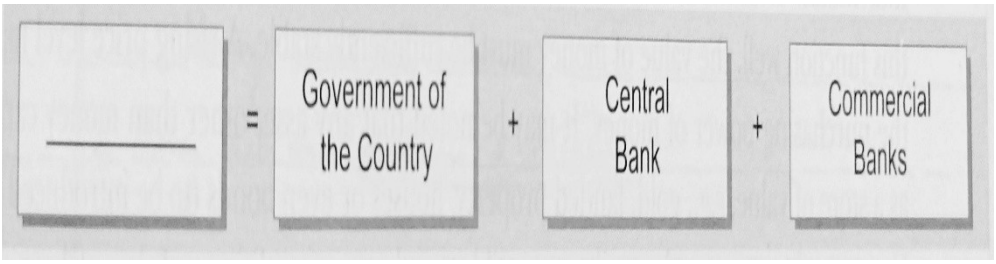
b. A-iv, B-iii, C-ii, D-i

c. A-ii, B-iv, C-i, D-iii

d. A-iii, B-iv, C-i, D-ii

**8.** On the basis of the below answer the following question: **1**

Choose the correct alternative to be filled in the given blank.



Choose the correct alternative to be filled in given blank.
a. Producers of money
b. Suppliers of money
c. Buyers of money
d. Both a and b

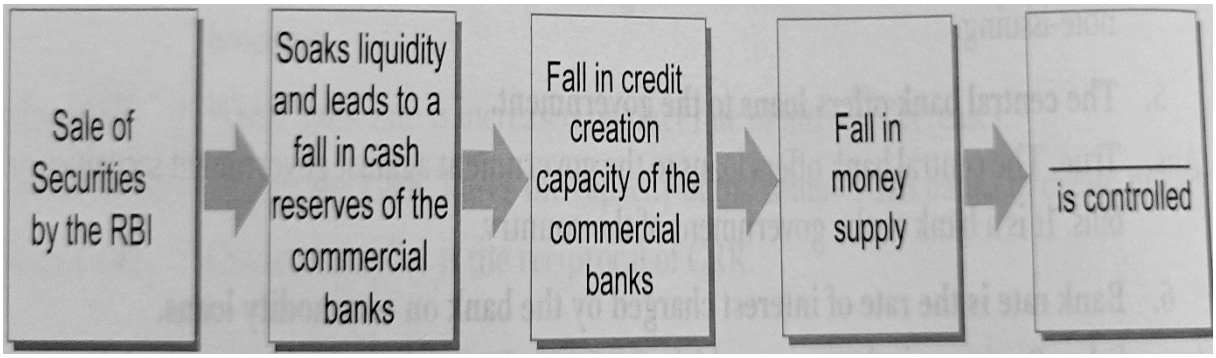
**9.** Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:- **1**

**Assertion(A)-The grains of green revolution eluded small and marginal farmers.**
**Reason(R)- HYV technology required expensive inputs which were beyond the reach of marginal farmers.**

**Alternatives:**

a. Both Assertion (**A**) and Reason(**R**) are true and Reason(**R**) is the correct explanation of Assertion (**A**).
b. Both Assertion (**A**) and Reason(**R**)are true but Reason(**R**) is not the correct explanation of Assertion (**A**).
c. Assertion (**A**) is true but Reason (**R**) is false.
d. Assertion (**A**) is false but Reason(**R**) is true.

**10.** On the basis of the below flow chart answer the following question **1**




Which of the following best fits in the given blank and complete the sequence given above.
a. Inflation
b. Deflation
c. Recession
d. None of these

**11.** On the basis of the below images answer the following question. **1**


A B C D

Which of the following is not an example of Maharatna?
a. Image A
b. Image B
c. Image C
d. Image D

**12.** Repo rate relates to_____ **1**
a. Short term borrowings by the commercial banks
b. Long term borrowings by the commercial banks
c. Overnight borrowings by the commercial bank
d. None of these

**13.** Which of the following statements is associated with partial equilibrium analysis? **1**
a. Equilibrium in the market of silver ornaments
b. Equilibrium across all markets in the economy
c. Equilibrium price of the goods across all markets in the economy
d. None of these

**14** Which of the following policies was adopted to increase the competitive positions of Indian goods in the international markets? **1**
a. Export duties were removed
b. Import licensing was abolished
c. The rate of corporation tax was reduced
d.Foreign Institutional Investors (FII) where allowed to invest in India

**15** Electric goods like tubelight and bulbs are examples of: **1**
**Alternatives:**
a. Durable consumption goods b. Semi durable consumption goods
c. Non durable consumption good d. All of the above

**16.** Which of the following was the hallmark of reforms in agriculture? **1**

**Alternatives:**

a. Green revolution
b. Self Reliance
c. Self sufficiency
d. Both a and b

**17.** Which of the following is an example of limited legal tender money in India? **1**

**Alternative:**

a. One rupee coin
b. A 20 rupee note
c. A 500 rupee note
d. None of these

**18.** In small scale industry, investment limit is: **1**

a. <Rs. 1 crore
b. < Rs 5 crore
c. < Rs 10 crore
d. < Rs 20 crore

**19.** If the reserve ratio is 20%, what will be the amount of total reserves after or initial deposit of Rs 200? **1**

**Alternatives:**

a.Rs 4000
b. Rs 2000
c. Rs 1000
d. Rs 400

**20.** How can globalisation increase the standard of living of the people in a country? **1**

**Alternatives:**

a. By offering more products to buy
b. By increasing rural to urban migration
c. By improving working conditions for factory workers
d. By making cheaper products available due to increased competition

**21.** Read the following passage and answer the question that follows: **1+1+1+1 (4)**

India has seen a long and rich history of handicrafts. Years and years of evolution and refinement have made it possible for India to retain a coveted spot in the handicrafts landscape of the world. Where the ancients were exemplary in their craft, The contemporary craftsman are adept in using the knowledge of the ancients by adding modern craft techniques to them. They have carefully preserved this stage-old art that represents dignity, style and beauty of the Indian culture. Voyaging through the lens of Indian handicrafts is a tempestuous affair. They have seen striking ups and downs throughout the late 2000s, had a grave impact on handicrafts industry.
Despite the growth of handicraft industry in India and the measures taken by the government to promote handicrafts, The average earning of a craftsman when compared to that of other fields is very low. Hence, The younger generation is moving to other fields with only the elder craftsman being left behind. The country needs younger generation of craftsmen to carry on the tradition of handicrafts, and this is only possible by ensuring the assistance of craftsman to improve their techniques, availability of quality raw materials, direct marketing channels, credit and better wages and providing them with social economic benefits.
***Source: The statesman.com, Nov.1, 2018***

A. The contemporary craftsman have carefully preserved this age old_____ (handicrafts/landscape) art that represents dignity and style of Indian culture. **1**

B. To preserve handicrafts industry and to carried forward, The country should encourage younger generation of craftsman helping them with: **1**

   a. Availability of quality raw materials
   b. Better wages
   c. Direct marketing channels
   d. All of these

C. During British rule, Indian handicrafts were discouraged by____(imposing heavy duty/ giving subsidies) on their exports. **1**

D. Decay of indigenous handicrafts during British rulers due to: **1**

a. Introduction of discriminatory tariff policy
b. Land revenue system
c. Commercialization of agriculture
d. All of these

**22.** "RBI acts as a bankers Bank and performs a supervisory role as well". Comment. **3**

**23.** Does modernization as a planning objective create contradiction in the light of employment generation? Explain. **3**

**24.** Saving is both avirtue as well as a vice. Explain how. **4**

**25.** 'The opening up of the Indian economy has led to a rapid increase in Foreign Direct Investment and Foreign Exchange Reserves of the country'. Defend or refute the given statement. **6**

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**Name: _____ Sec: ____ Roll No.: ____**

**CODE : B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**
**PERIODIC TEST-1 : (2024-2025)**
**ECONOMICS(030)**
**CLASS : XII**

**Time: 1½ Hrs.** **Maximum Marks : 40**

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***General Instructions :***

*1) This paper contains 20 Multiple Choice Questions type questions of 1mark each.*
*2) This paper contains 2 Short Answer Questions type questions of 3 marks each to be answered in 60 to 80 words.*
*4) This paper contains 1 Short Answer Questions type questions and 1 Case Based question of 4 marks is to be answered in 80 to 100 words*
*5) This paper contains 1 Long Answer Questions type questions of 6 marks each to be answered in 100 to 150 words.*
*6) All questions are compulsory.*

==========

**1.** In a two sector economy____ sector receives factor income from____ sector for supply of factor services. **1**

**Alternatives:**

a. Producer, household
b. Household, producer
c. Government, household
d. Government, producer

**2.** Which of the followingstatements is not true about the demographic condition of India during the colonial period? **1**

**Statements:**

a. Infant mortality rate was very high
b. After 1921, India entered the second stage of demographic transition
c. Life expectancy was too high
d. Female literacy rate was just 7%

**3.** Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:- **1**

**Assertion(A)-Intermediate goods are not included in the estimation of GDP.**

**Reason(R)-Value of intermediate goods is only a part of the value of final goods.**

**Alternatives:**

a. Both Assertion (**A**) and Reason(**R**) are true and Reason(**R**) is the correct explanation of Assertion (**A**).

b. Both Assertion (**A**) and Reason(**R**)are true but Reason(**R**) is not the correct explanation of Assertion (**A**).

c. Assertion (**A**) is true but Reason (**R**) is false.

d. Assertion (**A**) is false but Reason(**R**) is true.

**4.** Read the following statements carefully. **1**

**Statement 1: Objective of modernisation has helped in setting up of various types of technology oriented industries.**

**Statement 2:Modernisation refers to the change in technology along with positive change in social outlook of the people.**

In light of the given statements, choose the correct alternative from the following:

a. Statement 1 is true and Statement 2 is false

b. Statement 1 is false and Statement 2 is true

c. Both statements are true

d. Both statements are false

**5.** **1**

From the set of the events given in the column I and corresponding facts given in the column II , choose the correct pair of statements:-

| **Column I** | **Column II** |
|---|---|
| i. Money supply | A. M1 measure of money supply |
| ii. C+DD+ OD | B. M3 measures of money supply |
| iii. C+DD+OD + time deposits with commercial banks | C. High powered money |
| iv. Currency with public and reserves with RBI | D. Stock concept |

**Codes**

a. i-D, ii-A, iii-B, iv-C
b. i-A, ii-C, iii-D, iv-B
c. i-C, ii-B, iii-D, iv-A
d. i-B, ii-A, iii-C, iv-D

**6.** Identify which of the following statement is correct. **1**

a. British colonial rule made India net importer of raw material.
b. The main motive behind infrastructure development by Britishers was to serve the people of India
c. India generated large export surplus during the British rule
d.Indian handicraft industry enjoyed worldwide reputation under the British rule

**7.** **1**

From the set of the events given in the column I and corresponding facts given in the column II, choose the correct pair of statements:-

| Column I | Column II |
|---|---|
| A. Industrial sector reforms | 1. Role of RBI changed from regulator to facilitator |
| B. Financial sector reforms | 2. Reduction in the tax rates |
| C. Fiscal reforms | 3. Determination of exchange rate through demand and supply |
| D.Foreign exchange reforms | 4.Evolution of licensing system |

**Codes**

a. A-2, B-3, C-1, D-4
b. A-1, B-2, C-3, D-4
c. A-4, B-1, C-2, D-3
d. A-3, B-4, C-1, D-2

**8.** Demand deposits included: (choose the correct alternative) **1**

a. Saving account deposits and fixed deposits
b. Saving account deposits and current account deposits
c. Current account deposits and fixed deposits
d. All types of deposits

**9.** Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:- **1**

**Assertion(A)-Major policy initiatives(land reforms and green revolution) helped India to become self sufficient in food grains production.**

**Reason(R)- The proportion of people depending on agriculture did not decline as expected after the green revolution.**

**Alternatives:**

a. Both Assertion (**A**) and Reason(**R**) are true and Reason(**R**) is the correct explanation of Assertion (**A**).

b. Both Assertion (**A**) and Reason(**R**)are true but Reason(**R**) is not the correct explanation of Assertion (**A**).

c. Assertion (**A**) is true but Reason (**R**) is false.

d. Assertion (**A**) is false but Reason(**R**) is true.

**10.** Read the following hypothetical information carefully and answer the question on the basis of the same. **1**

| Round | Primary Deposits (₹ in crore) | Loans (₹ in crore) | Demand Deposits (₹ in crore) |
|---|---|---|---|
| 1st Round | 1,000 | 900 | 100 |
| 2nd Round | – | 810 | 90 |
| 3rd Round | 810 | – | 81 |
| (and so on till all excess reserves are exhausted) | – | – | – |
| Total | 10,000 | 9,000 | 1,000 |

The value of deposits in the second round is Rs _____ crore

a. 600

b. 700

c. 900

d.1000

**11.** ____ was the predecessor organisation to WTO **1**

**Alternatives:**

a. International Bank for reconstruction and development (IBRD)

b. International monetary fund (IMF)

c. Reserve Bank of India(RBI)

d. General agreement on tariffs and trade (GATT)

**1**

**12.** Higher the legal reserve ratio____ will be the credit creation:
a. Higher
b. Lower
c. Constant
d. None of these

**13.** Which of the following is not a macro variable? **1**
a. Wholesale price index
b. Output of the firm
c. Aggregate demand
d. Aggregate supply

**14** Liberalisation implies: **1**
a. Reduction in Government's control over economy
b. Encouragement to public sector
c. Nationalisation
d. None of these

**15** The nonstop continuity of intersectoral flows is called: **1**
**Alternatives:**
a. Circularity of flows
b. Real flows
c. Money flows
d. None of the above

**16.** Distribution of working population among different sectors of the economy is called: **1**
**Alternatives:**
a. Occupational structure
b. Output structure
c. Population structure
d. Gender structure

**17.** In case of credit money: **1**
**Alternatives:**
a. Money value = commodity value
b. Money value > commodity value
c. Money value < commodity value
d. None of these

**1**

**18.** Which of the following is a reason for the direct participation of the state in industrial development?
a. Lack of capital
b. Growth with social justice
c. Low inducement to invest
d. All of these

**19.** For the commercial banks the source of profit is_____ **1**
**Alternatives:**
a.Unclaimed deposits
b. Grants by the government
c. Spread the difference between the interest they charge and the interest they pay
d. None of these

**20.** Sale of equity of public sector enterprises by the government leads to_____ **1**
**Alternatives:**
a. Liberalization
b. Privatization
c. Globalization
d. Disinvestment

**21.** Read the following passage and answer the question that follows: **1+1+1+1 (4)**

India's independence was in itself are turning point in its economic history. The country was hopelessly poor as a result of steady industrialisation by Britain. Less than a 6th of Indians were literate. The abject poverty and sharp social differences had cast doubts on India's survival as one nation.
Cambridge historian Angus Maddison's work shows that India share of world income shrank from 22.6% in 1700- almost equal to Europe share of 23.3%- 23.8% to 3.8% in 1952. AS former prime minister put it: "**The brightest jewel in the British crown**" was the poorest country in the world in terms of per capita income at the beginning of the 20th century.

**1**

**1**

A. India remained a poor nation due to steady____ by Britain. **1**

B. Growth of a country is measured by its____(National Income/Per capita income).

C. India survival as one nation was threatened by
   a. Poverty
   b. Social differences **1**
   c. Both a and b
   d. Neither a nor b

D. India's growth of aggregate real output during the first half of 20th century was less than___(2/4) percent with a meagre half percent growth in per capita output per year.

**22.** Discuss briefly the credit creation process of the banking system, using a hypothetical numerical example. **3**

**23.** Discuss briefly, how institutional reform (land reform) have played a significant role in transforming Indian agriculture? **3**

**24.** "**Macroeconomics is the study of aggregates while microeconomics is not**". Defend or refute the given statement. **4**

**25.** What do you mean by new economic policy? Describe in brief industrial sector reforms introduced under the new economic policy. **6**

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Name : _____Sec : _____ Roll No. : _____

CODE-A

# BURNPUR RIVERSIDE SCHOOL

## PT-1 EXAMINATION [2024-25]

GEOGRAPHY

CLASS-XII

Time: 1½ hour F.M: 40

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1. Choose the right answer from the four alternative given below: 1

Which one of the following statements does not describe geography ?

a) an integrative discipline

b) study of the inter-relationship between humans and environment

c) subjected to dualism

d) not relevant to the present time due to the development of technology

2. Match the Column I with Column II and choose the correct option : 1

| COLUMN-I (Sub field of Human Geography) | COLUMN -II (Interface with sister discipline) of Social Science |
|---|---|
| A. Behavourial Geography | (i) Sociology |
| B. Cultural Geography | (ii) Epidemiology |
| C. Gender Geography | (iii) Psychology |
| D. Medical Geography | (iv) Anthropology |

Options :

a) A – (i) B – (ii) C – (iii) D – (iv)

b) A – (iii) B – (iv) C – (i) D – (ii)

c) A – (iv) B – (iii) C – (ii) D – (i)

d) A – (ii) B – (i) C – (iv) D – (iii)

3. Why do people tend to move away from places of social and political unrest ? 1

a) Threat to life and livelihood

b) Frequent clashes disrupting ordinary way of life.

c) to escape target prosecution

d) all of the above

4. Assertion (A) : Asia has a low ratio. Countries like China, India, Saudi Arabia, Pakistan and Afganisthan have a low sex ratio. 1

Reason (R) : This is attributed to better status of women, and an excessively male dominated out migration to different parts of the world.

a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)

b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)

c) Assertion (A) is true but Reason (R) is false.

d) Assertion (A) is false but Reason (R) is true.

5. Which of the following is not a key area in human development ? 1

a) Access to resources b) Long and healthy life

c) Education d) Economic disadvantage

6. …… approach is associated with Prof. Amartya Sen. 1

a) Income Approach b) Capability Approach

c) Welfare Approach d) Basic Needs Approach

7. Identify the features of Mixed farming from the following : 1

a) It is the most advanced and efficient type of rearing of milch animals.

b) Equal emphasis is laid on crop cultivation and animal husbandry

c) It was introduced by the Europeans in colonies.

d) The regions where farmers are specialized in production of vegetables only.

8. Which of the following pair is correct ? 1

a) Mediterranean Agriculture : Production of citrus fruits.

b) Mixed Farming : Paddy dominated cultivation

c) Primitive Subsistence Agriculture : Mechanized grain farming

d) Intensive Subsistence Agriculture : Jhumming farming

9. Religious Communities of India : 2011 1

| RELIGIOUS GROUP | POPULATION (2011) (IN MILLIONS) | PERCENT OF TOTAL (2011) |
|---|---|---|
| Hindus | 966.3 | 79.8 |
| Muslim | 172.2 | 14.2 |
| Christians | 27.8 | 2.3 |
| Sikhs | 20.8 | 1.7 |
| Buddhists | 8.4 | 0.7 |
| Jains | 4.5 | 0.4 |
| Other Religions and And Persuations | 7.9 | 0.7 |
| Religion not stated | 2.9 | 0.2 |

a) Name the largest religious minority group of India ?

b) Who are included in the other religious group of India ?

c) Mention the states in which Sikhs are mainly concentrated in India ?

10. In ……. type of settlement one or more sections of the village society choose or is forced to live a little away from the main cluster or village. 1

a) Clustered settlements b) Semi clustered settlements

c) Hamleted settlements d) Dispersed settlements

11. Assertion (A) : Some old towns also developed as satellite towns around metropolitan cities such as Gaziabad, Rohtak, Gurugram around Delhi. 1

Reason (R) : After Independence, a large number of towns have been developed as administrative headquarters.

a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)

b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)

c) Assertion (A) is true but Reason (R) is false.

d) Assertion (A) is false but Reason (R) is true.

12. Consider the following statements and answer the following : 1

(i) The rabi season largely coincides with South-West Monsoon under which the cultivation of tropical crops such as rice, jute, etc takes place.

(ii) The Kharif season begins with the onset of winters.

Choose the correct option :

a) (i) only b) (ii) only

c) both (i) and (ii) d) neither (i) nor (ii)

13. Choose the odd one out of the following rice crop varieties in West Bengal. 1

a) Aus b) Aman

c) Boro d) Basmati

14. Name the two chief schools of thought of Human Geography. 1

a) Imperialism and colonialism

b) Determinism and Possibilism.

c) Orientatism and socialism

d) None of the above.

15. Which of the following point is incorrect about population growth. 1

a) It is a change in number of inhabitants of a territory during a specific period of time.

b) It can be positive, as well as negative

c) It can be expressed either in terms of absolute numbers or in terms of percentage

d) It is not an indicator of economic development, social upliftment and historical and cultural background of the region.

16. Which of the following is not a key area in human development ? 1

a) access to resources b) long and healthy life

c) education d) economic disadvantage

17. Which one type of agriculture amongst the following is also called 'Slash and burn agriculture' ? 1

a) Extensive subsistence agriculture

b) Primitive subsistence agriculture

c) Extensive commercial grain cultivation

d) Mixed farming

18. The period from 1901-1921 is referred to as a period of ……. . 1

a) stagnant growth of population

b) steady growth of population

c) population explosion

d) declining growth of population

19. Match the following and choose the correct options : 1

| Type of Town/City | Example |
|---|---|
| A. Commercial | (i) Digboi |
| B. Religions & Cultival | (ii) Mughalsarai |
| C. Transport | (iii) Saharanpur |
| D. Mining | (iv) Pushkar |

a) A (ii) B (iv) C (iii) D (i)

b) A (iv) B (ii) C (i) D (iii)

c) A (iii) B (iv) C (ii) D (i)

d) A (i) B (iii) C (iv) D (ii)

20. Rainfed farming is classified into …….. and ..…... farming 1

a) Wetland and irrigated b) Wetland and Dryland

c) Irrigated and Dryland d) Irrigated and Rainfed

21. India's population is larger than the total population of ……. 1 put together.

a) N. America, South America and Australia

b) Russia, England and Germany

c) Sweden, France and Germany

d) Russia, South America and Australia

22. The exclusion of over half of the population becomes a serious handicap to any developing and civilized society. It is a global challenge, which has been acknowledged by the UNDP when it mentioned that, "If development is not engendered it is endangered" (HDR UNDP 1995). Discrimination, in general, and gender discrimination, in particular, is a crime against humanity. 3

(a) The biological differences become the basis of social differentiations, discriminations and exclusions because of

i) long historical background.

ii) people's own choice.

iii) spatial variation of work participation.

iv) social constructs and roles assigned to individuals reinforced by social institutions.

(b) Which of the following government initiative in India is directed to promote gender sensitivity ?

i) Right to Education

ii) Beti Bachao – Beti Padao

iii) National Youth Policy

iv) National Policy for Skill Development and Entrepreneurship

(c) The issues that need to be addressed to end up discrimination in India are :

i) Power of social institutions

ii) Low political will

iii) Denial of opportunities of education, employment, political representation, low wages

iv) Well-defined occupational structure

23. Both growth and development refer to changes over a period of time. The difference is that growth is quantitative and value neutral. It may have a positive or a negative sign. This means that the change may be either positive (showing an increase) or negative (indicating a decrease). 3

Development means a qualitative change which is always value positive. This means that development cannot take place unless there is an increment or addition to the existing conditions. Development occurs when positive growth takes place. Yet, positive growth does not always lead to development. Development occurs when there is a positive change in quality.

**Answer the following questions** :

a) Define the term development.

b) What do you mean by the term 'growth' ?

c) Does growth and development accompany each other ?

24. Differentiate between barren and wasteland and culturable wasteland. 3

25. Differentiate between Nomadic Herding and Commercial Livestock Reading. 5

26. Explain any four differences between rural and urban settlements in India. 5

XXXXXXXXX

Name : _____Sec : _____ Roll No. : _____

CODE-B

# BURNPUR RIVERSIDE SCHOOL

## PT-1 EXAMINATION [2024-25]

GEOGRAPHY

CLASS-XII

Time: 1½ hour F.M: 40

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1. Identify the features which do not correspond to the study of Human Geography ? 1

a) Spatial aspect b) nomothetic aspect

c) idiographic aspect d) temporal aspect

2. Match the correct pairs of each items of LIST-I by selecting the appropriate word from LIST-II 1

| LIST-I (Field of Human Geography) | LIST-II (Discipline of Social Science) |
|---|---|
| A. Social Geography | (i) Agricultural Sciences |
| B. Political Geography | (ii) History |
| C. Economic Geography | (iii) Military Services |
| | (iv) Demography |
| | (v) Urban Studies and Planning |

Options :

a) A – (ii) B – (iii) C – (i) (b) A – (ii) B – (i) C – (iii)

c) A – (iii) B – (iv) C – (v) (d) A – (iv) B – (iii) C – (i)

3. Choose the 'Push factors' of migration from the following: 1

a) Socio-economic backwardness

b) Pleasant Climate

c) Security of life and property

d) Peace and stability

4. Assertion (A) : For the sustainability of our resources, the world will have to control the rapid population increase. 1

Reason (R) : Population growth beyond a certain level leads to the growth of resources.

a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)

b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)

c) Assertion (A) is true but Reason (R) is false.

d) Assertion (A) is false but Reason (R) is true.

5. Which one of the following countries does not come under high level of Human Development ? 1

a) Norway b) Canada

c) India d) Singapore

6. …… is the only country in the world to officially proclaim the Gross National Happiness (GNH) as the measure of the countries progress. 1

a) Bangladesh b) Bolivia

c) Belgium d) Bhutan

7. Choose the incorrect statement regarding commercial livestock rearing. 1

a) Commercial livestock rearing is associated with western culture.

b) Parcels are fenced to regulate the grazing

c) Move from one place to another depending on the amount of pastures.

d) When the grass of one parcel is grazed, animals are moved to another parcel.

8. Choose the feature of 'open cast mining' from the following: 1

a) Cheapest way of mining b) It requires lift drills

c) It requires ventilation system

d) It has high labour cost.

9. Religious Communities of India : 2011 1

| RELIGIOUS GROUP | POPULATION (2011) (IN MILLIONS) | PERCENT OF TOTAL (2011) |
|---|---|---|
| Hindus | 966.3 | 79.8 |
| Muslims | 172.2 | 14.2 |
| Christians | 27.8 | 2.3 |
| Sikhs | 20.8 | 1.7 |
| Buddhists | 8.4 | 0.7 |
| Jains | 4.5 | 0.4 |
| Other Religions and And Persuations | 7.9 | 0.7 |
| Religion not stated | 2.9 | 0.2 |

a) Name the largest religious minority group of India ?

b) Who are included in the other religious group of India ?

c) Mention the states in which Sikhs are mainly concentrated in India ?

10. Which type of settlement is found in fertile alluvial plains and in the North Eastern states of India. 1

a) Clustered settlements b) Semi clustered settlements

c) Hamleted settlements d) Dispersed settlements

11. Assertion (A) : One or more sections of the village society choose or is forced to live a little away from the main cluster or village. 1

Reason (R) : People rush to live in compact villages for security or defence reasons.

a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)

b) Both Assertion (A) and Reason (R) are true but Reason (R) is not the correct explanation of Assertion (A)

c) Assertion (A) is true but Reason (R) is false.

d) Assertion (A) is false but Reason (R) is true.

12. Consider the following statements : 1

(i) India lost a large proportion of cotton growing areas to Bangladesh during partition.

(ii) India grows both short staple (Indian) cotton as well as long staple (American) cotton.

Choose the correct option :

a) (i) only

b) (ii) only

c) both (i) and (ii) are correct

d) neither (i) nor (ii) are correct.

13. Select the incorrect out of the following crops grown during Zaid season. 1

a) Watermelon b) Cucumber

c) Arhar (tur) d) Muskmelon

14. Which one of the following is the most important factor in the interaction between people and environment. 1

a) Human Intelligence b) Peoples Perception

c) Technology d) Human Brotherhood

15. Which one of the following is not a push factor ? 1

a) water shortage

b) medical or education facilities

c) unemployment d) epidemics

16. What are the indicators of HDI ? 1

a) Longevity b) Educational attainment

c) Standard of living d) All of the above

17. Which one of the following does not follow 'monoculture' ? 1

a) Diary farming b) Mixed farming

c) Plantation agriculture d) Commercial grain farming

18. The decades of …… are referred to as the period of population explosion in India. 1

a) 1901-1921 b) 1921-1951

c) 1951-1981 d) 1981 to now

19. Match the following : 1

| COLUMN-I | COLUMN-II |
|---|---|
| A. Ancient towns | (i) Roorkee, Pilani |
| B. Medieval towns | (ii) Varanasi, Prayagraj |
| C. Educational towns | (iii) Mumbai, Salem |
| D. Industrial towns | (iv) Lucknow, Agra |

a) A (ii) B (iv) C (i) D (iii)

b) A (iv) B (iii) C (i) D (ii)

c) A (i) B (ii) C (iii) D (iv)

d) A (iv) B (iii) C (ii) D (i)

20. …… leaves have a rich content of caffiene and tanic 1

a) Coffee b) sugarcane

c) tea d) Cocoa

21. The two components of population growth are : 1

a) natural and induced

b) Crude birth and death rates

c) Inward and outward movement of people.

d) life expectancy and health.

22. Such an uneven spatial distribution of population in India suggests a close relationship between population and physical, socio economic and historical factors. As far as the physical factors are concerned, it is clear that climate along with terrain and availability of water largely determines the pattern of the population distribution. 3

**Answer the following question :**

i) Name the states, which account for 76 per cent of the total population of the country.

ii) Mention the socio-economic and historical factors for distribution of population.

iii) Name the areas having higher proportion of populations. ?

23. International comparisons of human development are interesting. Size of the territory and per capita income are not directly related to human development. Often smaller countries have done better than larger ones in human development. Similarly, relatively poorer nations have been ranked higher than richer neighbours in terms of human development. 3

For example, Sri Lanka, Trinidad and Tobago have a higher rank than India in the Human Development Index despite having smaller economies. Similarly, within India, Kerala performs much better than Punjab and Gujarat in Human Development despite having lower per capita income.

**Answer the following questions** :

i) Name the countries which are smaller in size and smaller economy have high rank in the HDI than India.

ii) Is there any relation between HDI rank and size of economy ?

iii) What are the reasons for India's low HDI rank ?

24. How would you distinguish between net sown area and gross cropped area. 3

25. Discuss the important characteristic features of plantation agriculture. Name a few important plantation crops from different countries. 5

26. Explain the main features each of the four types of settlements formed in India. 5

XXXXXXXXX