

Name: _____ Sec: _____ Roll No.: _____
CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST-1: [2024-2025]

ENGLISH CORE

Class : XI

Time: 1 ½ Hrs.

Maximum Marks : 40

GENERAL INSTRUCTIONS:

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

1. Rearrange the following to form meaningful sentences. 1x4

- i. when / doctors / patients / as demigods / there / was / a time / considered
- ii. was / a part of / the patient's / the doctor / family
- iii. appointments / and patients / nowadays / are made / the doctor / wait for
- iv. of the day / they can be / at any time / of communication / contacted / with modern means

2. Complete the passage given below by filling in each of the blanks with the help of the options that follow. 1x4

Reading is one of the best hobbies (i) _____ you can adopt. (ii) _____ not only helps you to pass your leisure time usefully, (iii) _____ also keeps you well-informed. Besides that, it builds (iv) _____ vocabulary and helps to improve your expression.

- | | | | | |
|------|----------|-----------|----------|--------|
| i. | a. this | b. that | c. those | d. who |
| ii. | a. It | b. They | c. Them | d. Its |
| iii. | a. and | b. so | c. hence | d. but |
| iv. | a. yours | b. your's | c. your | d. its |

3. A. Read the extract given below and answer the questions that follow. 1x4

The cardboard shows me how it was
When the two girl cousins went paddling
Each one holding one of my mother's hands.

- i. 'It' here refers to _____.
- ii. Who were the two girl cousins?
- iii. Choose the correct option with respect to the two statements given below:

Statement 1: The poet is sad and nostalgic.

Statement 2: The poet reminisces the simplicity reflected by her mother.

- a. Statement 1 can be inferred but statement 2 cannot be inferred.
 - b. Statement 1 cannot be inferred but Statement 2 can be inferred.
 - c. Statement 1 and Statement 2 can be inferred.
 - d. Statement 1 and Statement 2 cannot be inferred.
- iv. Who is the poet of these lines?
- a. Ted Hughes
 - b. Shirley Toulson
 - c. Walt Whitman
 - d. Marcus Natten

3. B. Read the given passage and answer the questions that follow. 1x4

She broke it into little crumbs, the way my grandmother used to, and
threw it to them. The sparrows took no notice of the bread.

- i. From which story have these lines been taken?
- ii. What happened to the bread crumbs in the end?

iii. Who does 'She' refer to?

- a. Grandmother
- b. Mother
- c. Wife
- d. Maid

iv. The phrase 'took no notice' used in the above extract means

- a. didn't worry
- b. didn't see
- c. didn't pay any attention
- d. all of the above

4. Answer the following questions in 40-50 words each.

2x3

i. "..... but this was more than even I could believe." Who said this? Why?

(The Summer of the Beautiful White Horse)

ii. What is the significance of the yellow colour in the poem 'The Laburnum Top'?

iii. What is the meaning of the line 'Both wry with the laboured ease of loss'?

(A Photograph)

5. Answer the following questions in 120-150 words each.

5x2

(Attempt any 2)

i. How do you know that the author's grandmother was a religious lady? Give examples from the text to support your answer.

(The Portrait of a Lady)

- ii. Mourad was the natural descendant of the crazy streak of Uncle Khosrove. Explain.

(The Summer of the Beautiful White Horse)

- iii. What values do you learn from the goldfinch in the poem ‘The Laburnum Top’?

6. Draft an attractive poster for ‘Save Trees, Save Earth’ campaign. 3

7. ‘To use the latest technology the right way is in the hands of the youth today.’ Write a speech in 120–150 words discouraging the misuse of technological products like cell phone, computers, etc. and highlighting the need to use them to promote harmony and goodwill in the society. 5

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BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST – I : (2024-2025)
ENGLISH
Class – XI

Time: 1^{1/2} Hours

Maximum Marks : 40

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GENERAL INSTRUCTIONS:

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

1. **Rearrange the following words and phrases to form meaningful sentences:** 1X 4

- (a) trees/industry/on/the/is/oil/reliant
- (b) acquire/do/kind/we/what/of/woods/goods/the/from
- (c) by/were/farmers/the/exploited/Indian/English/the
- (d) exorbitant/farmers/taxes/poor/pay/were/to/forced/the

2. **Fill in the blanks by choosing the correct alternatives from the options given below:** 1X 4

Internationally, *Gitanjali* is Tagore's best-known collection of poetry, (a) _____ (for, of, by, from) which he was awarded the Nobel Prize (b) _____ (in, on, by, to) Literature in 1913. Tagore was the first non-European (c) _____ (who, which, to, too) receive a Nobel Prize in Literature and the second non-European to receive a Nobel Prize (d) (since, from, by, after) Theodore Roosevelt.

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

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Name: _____ Sec: _____ Roll No.: _____
CODE: A

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

TIME: $1\frac{1}{2}$ Hrs.

Maximum Marks: 40

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.

SECTION - A

(Multiple Choice Questions)

Each question carries 1 mark.

1. If A and B are two sets, then $A \cap (A - B)$ is equal to: 1
 - (a) A
 - (b) B
 - (c) ϕ
 - (d) $A - B$
2. If $U = \{0, 5, 10, 15, 20\}$ and $A = \{5, 10\}$, then number of elements in A' are: (A' denotes complement of A) 1
 - (a) 3
 - (b) 2
 - (c) 4
 - (d) 5
3. Let $S = \{1, 2, 3, \dots, 10\}$. The number of subsets of S containing only odd numbers is: 1
 - (a) 15
 - (b) 31
 - (c) 63
 - (d) 7

4. Let $n(A) = m$ and $n(B) = n$. Then the total number of non-empty relations that can be defined from A to B is: 1
- m^n
 - $n^m - 1$
 - $mn - 1$
 - $2^{mn} - 1$
5. If there are 1024 relations from set $A = \{1, 2, 3, 4, 5\}$ to a set B, then the number of elements in B is: 1
- 3
 - 2
 - 4
 - 8
6. The value of a and b when $(a + 4, b - 3) = (6, 2)$ are: 1
- $a=3, b=5$
 - $a=2, b=5$
 - $a=1, b=4$
 - $a=2, b=6$
7. Range of $f(x) = \frac{1}{1-2\cos x}$ is: 1
- $\left[\frac{1}{3}, 1\right]$
 - $\left[-1, \frac{1}{3}\right]$
 - $(-\infty, -1] \cup \left[\frac{1}{3}, \infty\right)$
 - $\left[\frac{-1}{3}, 1\right]$
8. If $f\left(x - \frac{1}{x}\right) = x^2 + \frac{1}{x^2}$ ($x \neq 0$), then $f(x)$ is: 1
- x^2
 - $x^2 + 2$
 - $x^2 - 2$
 - x
9. Domain of $f(x) = \sqrt{4x - x^2}$ is: 1
- $\mathbb{R} - [0, 4]$
 - $\mathbb{R} - (0, 4)$
 - $(0, 4)$
 - $[(0, 4]$
10. Simplify: $i^{n+100} + i^{n+50} + i^{n+48} + i^{n+46}$: 1

- (a) 0
(b) 1
(c) 2
(d) 3
11. If $\left(\frac{1-i}{1+i}\right)^n = 1$, then the least positive integral value of n is: 1
(a) 2
(b) -2
(c) 4
(d) -4
12. The modulus of $\frac{1-i}{1+i}$ is: 1
(a) 0
(b) 1
(c) -1
(d) ± 1
13. Find the value of $\sin(40^\circ + \theta)\cos(10^\circ + \theta) - \cos(40^\circ + \theta)\sin(10^\circ + \theta)$ is: 1
(a) $\frac{1}{2}$
(b) $\frac{1}{4}$
(c) 1
(d) 0
14. The angle 120° in radian is: 1
(a) $\pi/3$
(b) $2\pi/3$
(c) $\pi/2$
(d) $5\pi/3$
15. The value of $\sin 870^\circ$ is; 1
(a) $\frac{1}{2}$
(b) $-\frac{1}{2}$
(c) $\frac{\sqrt{3}}{2}$
(d) $-\frac{\sqrt{3}}{2}$
16. The value of $\frac{\sin 2x}{1+\cos 2x}$ is: 1
(a) $\sin x$

- (b) $\cos x$
 (c) $\tan x$
 (d) $\cot x$
17. If $-3x + 17 < -13$, then: 1
 (a) $x \in (10, \infty)$
 (b) $x \in [10, \infty)$
 (c) $x \in (-\infty, 10]$
 (d) $x \in [-10, 10)$
18. The solution of $|x-2| \geq 5$, $x \in R$ is: 1
 (a) $(-\infty, -3] \cup [7, \infty)$
 (b) $(-\infty, -3) \cup [7, \infty)$
 (c) $(-\infty, -3] \cup (7, \infty)$
 (d) $[-\infty, -3] \cup [7, \infty]$

ASSERTION – REASON BASED QUESTIONS

19. **Assertion:** Let f and g be two real functions, defined by $f(x) = \sqrt{x+4}$ and $g(x) = \sqrt{16-x^2}$, then domain of $fg = [-4, 4]$. 1
Reason: Let $f: D_1 \rightarrow R$ and $g: D_2 \rightarrow R$, where $D_1, D_2 \subseteq R$. Then domain of fg is $D_1 \cap D_2$.
 (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:** The ratio of the radii of two circles at the centre of which two equal arcs subtend angles of 30° and 70° is 21:10. 1
Reason: Number of radians in an angle subtended at the centre of a circle by an arc is equal to the ratio of the arc to the radius of the circle.
 (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 sum of cardinal numbers of two finite sets A and B is 9. The ratio of cardinal number of power set of A is to cardinal number of power set of B is 8:1.

Based on the above information, answer the following questions:

- (i) Find the cardinal number of set A. 1
 - (ii) Find the cardinal number of set B. 1
 - (iii) Find the maximum value of $n(A \cup B)$. 2
- OR**
- Find the minimum value of $n(A \cup B)$.

22. Given two non-empty set $A = \{x: x < 5, x \in \mathbb{N}\}$ and $B = \{x: x \leq 2, x \in \mathbb{W}\}$.

Based on the above information, answer the following questions:

- (i) Write $A \times B$ as a set of ordered pairs. 1
 - (ii) Write $(A \cup B) \times (A \cap B)$ as a set of ordered pairs. 1
 - (iii) Find the domain of R. 2
- OR**
- Find the range of R.

SECTION - C

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

23. If $f(x) = \frac{x+1}{x-1}$ then show that $f\{f(x)\} = x$. 2

OR

Find the domain and range of the real function $f(x) = 1 - |x-2|$

24. Prove that: $\sqrt{\frac{1+\sin x}{1-\sin x}} = \tan\left(\frac{\pi}{4} + \frac{x}{2}\right)$ 2

SECTION – D

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

marks.

25. Solve: $\frac{1}{2-|x|} \geq 1, x \in \mathbb{R} - \{-2, 2\}.$

3

OR

Solve: $\frac{|x|-1}{|x|-2} \geq 0, x \in \mathbb{R} - \{-2, 2\}.$

SECTION – E

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

26. If $\left(\frac{z-1}{z+1}\right)$ is purely an imaginary number and $z \neq -1$, then find the value of $|z|.$ 5

OR

If the vertices of an equilateral triangle are represented by the complex numbers z_1, z_2, z_3 , then prove that: $\frac{1}{z_1-z_2} + \frac{1}{z_2-z_3} + \frac{1}{z_3-z_1} = 0.$

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Name: _____ Sec: _____ Roll No.: _____
CODE : B

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

TIME: $1\frac{1}{2}$ Hrs.

Maximum Marks: 40

General Instructions:

- (i) This question paper has 5 sections A,B,C,D and E
 - (ii) Section A contains 18 MCQs and 2 assertion reason based question carrying 1 mark each
 - (iii) Section B contains 2 case based questions carrying 4 marks each.
 - (iv) Section C contains 2 questions carrying 2 marks each.
 - (v) Section D contains 1 question carrying 3 marks.
 - (vi) Section E contains 1 question carrying 5 marks.
 - (vii) All questions are compulsory. However an internal choice in 1 question of 2 marks and 1 question of 3 marks and 1 question in 5 marks are provided.
 - (viii) Draw neat figures wherever required.
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SECTION-A

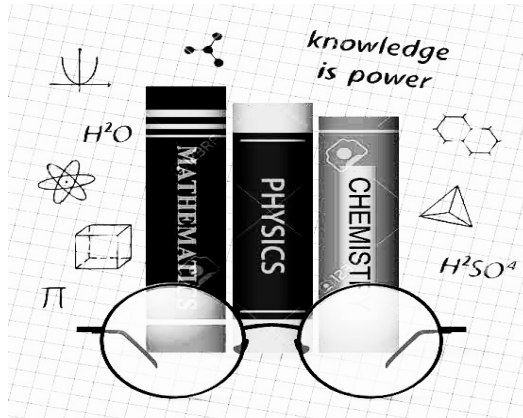
1. If a set A has n elements then the number of elements in its power set P(A) is 1
(a)n (b) 2^n (c)2n (d) 4n
2. Representation of a set $A = \{x : x \in \mathbb{Z}, x^2 < 20\}$ in the roster form is 1
(a){1,2,3,...,20} (b) {1,2,3,4}
(c) {0,1,2,3,4} (d) {-4,-3,-2,-1,0,1,2,3,4}
3. The elements of a set A, satisfy the property $\frac{n}{2n+1}, n \in \mathbb{N}, n < 5$ for their 1
elements. The element which does not belong to the set is
(a) $\frac{3}{7}$ (b) $\frac{4}{9}$ (c) $\frac{1}{3}$ (d) $\frac{5}{11}$

4. Let $A = \{1, 3, 5, 7\}$ and $B = \{2, 4, 6, 8\}$ and $R = \{(x, y) : x \in A, y \in B \text{ and } x > y\}$ Then 1
- (a) $\text{dom}(R) = \{3, 5, 7\}$ $\text{range}(R) = \{2, 4, 6\}$
 (b) $\text{dom}(R) = \{2, 4, 6\}$ $\text{range}(R) = \{3, 5, 7\}$
 (c) $\text{dom}(R) = \{2, 4\}$ $\text{range}(R) = \{2, 4, 6, 8\}$
 (d) none of these
5. If $n(A) = m$ and $n(B) = n$, then the number of relations from set A to set B is 1
- (a) $m+n$ (b) mn (c) 2^{mn} (d) none of these
6. $R = \{(1, 3), (2, 5), (3, 5), (7, 4)\}$ is a relation then the number of elements in its range set is 1
- (a) 2 (b) 3 (c) 4 (d) 8
7. Range of the function $f(x) = \frac{x+4}{|x+4|}$ 1
- (a) $\{4\}$ (b) $\{-4\}$ (c) $\{-1, 1\}$ (d) any real number
8. The domain of the real valued function $f(x) = \frac{1}{3x-2}$ is 1
- (a) $Q - \left\{\frac{2}{3}\right\}$ (b) $R - \left\{\frac{2}{3}\right\}$ (c) $R - \{2\}$ (d) \mathbb{N}
9. If $(2x, y-x) = (y+3, 0)$ then the value of y is 1
- (a) -3 (b) 3 (c) x (d) -x
10. The conjugate of $(-5-2i)$ is 1
- (a) $-5+2i$ (b) $5-2i$ (c) $2+5i$ (d) $-5-2i$
11. Value of i^{257} is (a) i (b) -i (c) 1 (d) -1 1
12. Real part of the complex number $-3i+6$ is 1
- (a) 6 (b) -3 (c) -6 (d) -3i
13. $\sin \frac{25\pi}{3} = ?$ 1
- (a) $\frac{1}{2}$ (b) $\frac{1}{\sqrt{2}}$ (c) $\frac{\sqrt{3}}{2}$ (d) $\frac{-\sqrt{3}}{2}$
14. The radian measure of 15° is (a) $\frac{\pi}{12}$ (b) $\frac{\pi}{15}$ (c) $\frac{1}{12}$ (d) $\frac{15}{12}$ 1

15. The value of $\sin(45^\circ + \theta) - \cos(45^\circ - \theta)$ is 1
 (a) $2 \cos \theta$ (b) $2 \sin \theta$ (c) 1 (d) 0
16. $\cos\left(\frac{\pi}{4} - x\right) \cos\left(\frac{\pi}{4} - y\right) - \sin\left(\frac{\pi}{4} - x\right) \sin\left(\frac{\pi}{4} - y\right) = ?$ 1
 (a) $\sin(x - y)$ (b) $\cos(x + y)$ (c) $\cos(x - y)$ (d) $\sin(x + y)$
17. If $-3x + 17 < -13$ then 1
 (a) $x \in (10, \infty)$ (b) $x \in [10, \infty)$ (c) $x \in \mathbb{R}$ (d) $x \in \mathbb{R}$
18. If x is a positive integer and $20 < x < 100$ then the solution set of x is 1
 (a) $\{0, 1, 2, 3, 4, 5\}$ (b) $\{1, 2, 3, 4, 5\}$ (c) $\{1, 2, 3, 4\}$ (d) $\{0, 1, 2, 3, 4\}$
19. Assertion(A): the range of the function $f(x) = 2 - 3x, x \in \mathbb{R}, x > 0$ is \mathbb{R} 1
 Reason(R): the range of the function $f(x) = x^2 + 2$ is \mathbb{R}
 (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(A): radian measure of 55° is $\frac{5\pi}{12}$ 1
 Reason(R): radian measure = degree measure $\times \frac{\pi}{180}$
 (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

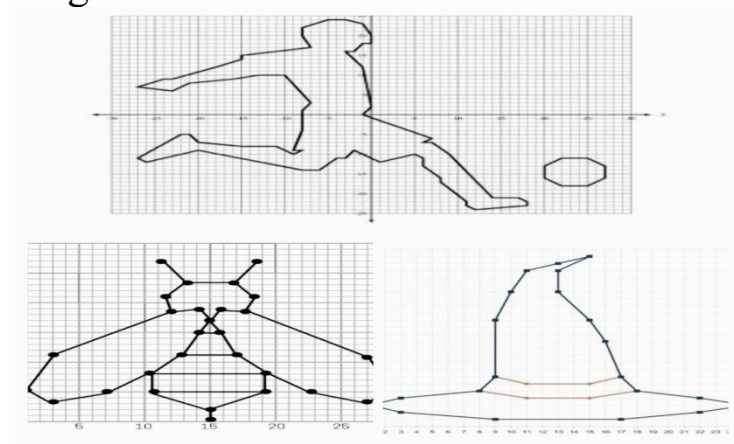
21. **CASESTUDY:** In a survey of 40 students, it was found that 21 had taken Mathematics, 16 had taken Physics and 15 had taken chemistry, 7 had taken Mathematics and chemistry, 12 had taken Mathematics and Physics, 5 had taken Physics and Chemistry and 4 had taken all the three subjects.



- (i) find the number of students who had taken Mathematics only 1
(ii) find the number of students who had taken Physics and chemistry but not Mathematics 1
(iii) find the number of students who had taken exactly one of the three subjects 2

22. **CASESTUDY:**

Rohit is doing a designing course . he is working on Cartesian art now a days. For it he wants to take x- coordinate from the set $A=\{0,1,2,3,5\}$ and y-coordinate from the set $B=\{-3,-2,-1,0,1,2,3\}$. based on this information answer the following



- (i) how many ordered pairs Rohit can make from A to B? 1
(ii) how many total relations can be defined from A to B ? 1
(iii) if a relation from A to B is defined as $R = \{(a, b) : a < b, a \in A, b \in B\}$ then 2
how many elements are therein R?

SECTION-C

23. Find the domain and range of the real function, $f(x) = \frac{x-3}{x-5}$ 2

OR

If $f(x) = \frac{x-1}{x+1}$ then prove that $f(2x) = \frac{3f(x)+1}{f(x)+3}$

24. Simplify $\frac{\sin(180^\circ + \theta) \cos(360^\circ - \theta) \tan(270^\circ - \theta)}{\sec^2(90^\circ + \theta) \tan(-\theta) \sin(270^\circ + \theta)}$ 2

SECTION-D

25. Solve for x, $\frac{x-2}{x+5} > 2$ 3

OR

The IQ of a person is given by the formula, $IQ = \frac{m}{c} \times 100$, where m is the mental age and c is the chronological age. If $80 \leq IQ \leq 140$ for a group of 12-year children, find the range of their mental age.

SECTION-E

26. If $\left(\frac{z-1}{z+1}\right)$ is purely imaginary number and $z \neq -1$ then find the value of $|z|$ 5

OR

If $\sqrt{\frac{1+i}{1-i}} = a+ib$ then show that $(a^2+b^2)^2 = 1$

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Name: _____ Sec: _____ Roll No.: _____
CODE : A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST - I: (2024– 2025)
PHYSICS
CLASS-XI

Time: 1½ Hrs.

Maximum Marks : 40

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.

Section :A

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

- Q1. If momentum P, area A and time T are taken as fundamental units then find dimension of energy 1
(a) P^2AT^{-2} (b) $PA^{-1}T^{-2}$ (c) $PA^{1/2}T^{-1}$ (d) $P^{1/2}AT^{-1}$
- Q2. If speed V, area A and force F are chosen as fundamental units then find dimensional formula for Young's modulus is: 1
(a) FA^2V^{-3} (b) $FA^{-1}V^0$ (c) FA^2V^{-2} (d) FA^2V^{-1}
- Q3. Dimensionless quantity : 1
(a) never has a unit (b) always has a unit
(c) may have a unit (d) does not exist
- Q4. Velocity V of a moving particle varies with displacement X given by equation $X = \sqrt{V+1}$, then acceleration of the particle at X = 5 will be 1
(a) 24 (b) 34 (c) 14 (d) 240
- Q5. Velocity V of a particle is $V = (10 + 2t^2)$ then average acceleration of the particle between 2 sec and 5 sec is 1
(a) $2m/s^2$ (b) $4m/s^2$ (c) $12m/s^2$ (d) $14m/s^2$

- Q6. Velocity of a particle is dependent on time as $V=k(t-1)$, where $K = 2\text{m/s}^2$ the distance covered in the first 3 seconds will be 1
 (a) 18m (b) 5m (c) 3m (d) 6m
- Q7. A stone is thrown with a velocity of u at an angle of α w.r.t horizontal. Find the speed when it makes an angle β with horizontal: 1
 (a) $v = u \cos \alpha \sec \beta$ (b) $v = u \sin \alpha \sec \beta$
 (c) $v = u \cos \alpha \sin \beta$ (d) $v = u \cos \alpha \tan \beta$
- Q8. Projectile is fired horizontally with a speed of 98 m/s from top of a hill 490 m high. The time taken to reach the ground will be 1
 (a) 1sec (b) 10 sec (c) 0.1 sec (d) 0.01sec
- Q9. Projectile is fired horizontally with a speed of 98 m/s from top of a hill 490 m high. Distance where it hits the ground from base of the hill is : 1
 (a) 980m (b) 98m (c) 9.8m (d) 9800m

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 false.
 (d) If both Assertion and reason is false.

- Q10. **Assertion:** The dimensional formula for product of resistance and conductance is same as for dielectric constant. 1
Reason : Both have dimensions of time constant.
- Q11. **Assertion:** A body can have acceleration even if velocity is zero at that instant. 1
Reason : The body will be momentarily at rest when it reverses its direction of motion.

- Q12. **Assertion:** dot product and cross product of 2 vectors is 0 (zero) 1
it implies that one of the vector must be a null vector.

Reason : Null vector is a vector of zero magnitude.

SECTION :B

Each carry two marks:

- Q13. Resultant of two forces of magnitude P and Q acting at the point 2
at an angle of 60 degree is $(\sqrt{7}Q)$, then what is the ratio of
magnitude of P and Q.
- Q14. Prove the formula $v^2 = u^2 + 2as$ using calculus. 2
- Q15. A body is projected at an angle of θ with horizontal with a 2
velocity of u. Then derive the expression of horizontal range.

SECTION: C

Each carry three marks:

- Q16. A gas bubble from an explosion underwater, oscillates with a 3
time period T proportional to $P^a d^b E^c$, where P= pressure ,
d=density of water and E=total energy of explosion then find
value of $6a^2/(b+c)$
- Q17. Prove the formula $S_{nth} = u + \frac{a}{2} (2n-1)$, using v vs t graph. 3
- Q18. Prove that path of a projectile is parabolic in nature. 3

SECTION: D

Case Based Question:

- Q19. **A body is released near the surface of earth is accelerated 1
downward under the influence of. In absence of air
resistance all bodies fall with same acceleration near the
surface of Earth. This motion of body falling towards the
Earth from a small height is called as free fall .**

Answer the following questions:

- (i) A ball is thrown after on top of a tower with speed be v 1
reaches the ground in t_1 seconds. If the boy is thrown downward
from the top of the same tower reaches the ground in t_2 seconds.
If it is allowed to fall freely under gravity from the top of the
same tower then time required to be is :
(a) $(t_1+t_2)/2$ (b) $t_1 t_2$ (c) $(t_1 t_2)/2$ (d) $\sqrt{t_1 t_2}$
- (ii) A body falling from rest describes distances S_1, S_2 and S_3 in 1
first, second and third seconds of its fall ,then the ratio of
 $S_1:S_2:S_3$ will be
(a) 1:1:1 (b) 1:3:5 (c) 1:2:3 (d) 1:4:9

- (iii) A ball was released from top of a tower of height h meters. It takes T seconds to reach the ground then what is the position of the ball above the ground in $T/3$ seconds: 1
 (a) $4h/9$ (b) $5h/9$ (c) $8h/9$ (d) $11h/9$
- (iv) Points P, Q and R are in a vertical line such that $PQ=QR$. A ball at P is allowed to fall freely. What is the ratio of times of descent through PQ and QR? 1
 (a) 1:1 (b) $1:\sqrt{2}$ (c) $1:(\sqrt{2}-1)$ (d) 1:4

Q20.

Two vectors can be multiplied in 2 ways one way produces a scalar resultant called as scalar product while the other way produces a vector resultant called as vector product:

Answer the following questions:

- (i) Two forces 12 N and 8N act on a body, the resultant force on the body has maximum value of : 1
 (a) 20N (b) 4N (c) 8N (d) 12N
- (ii) If $\vec{P} + \vec{Q} = \vec{R}$ and their magnitudes are also same then angle between \vec{P} and \vec{Q} is: 1
 (a) 30° (b) 60° (c) 90° (d) 120°
- (iii) Angle between two vectors $\vec{P} = 5\hat{i} + 5\hat{j}$ and $\vec{Q} = 5\hat{i} - 5\hat{j}$ is 1
 (a) zero (b) 90° (c) 45° (d) 120°
- (iv) Area of the parallelogram whose two sides are $(\hat{i} + 2\hat{j} + 3\hat{k})$ and $(2\hat{i} + \hat{j})$ is : 1
 (a) $\sqrt{54}$ sq units (b) $\sqrt{24}$ sq units
 (c) $\sqrt{45}$ sq units (d) $\sqrt{44}$ sq units

SECTION: E

Long answer type question:

Q21.

State and prove parallelogram law of vector. What is geometrical interpretation of cross product?

5

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Name: _____ Sec: _____ Roll No.: _____
CODE : B

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST - I: (2024– 2025)

PHYSICS

CLASS-XI

Time: 1½ Hrs.

Maximum Marks : 40

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.

SECTION : A

1. If frequency (F), velocity (V) and density (D) are considered as fundamental units then the dimensional formula of momentum will be: 1
 - (a) DVF^2
 - (b) DV^2F^{-1}
 - (c) $D^2V^2F^2$
 - (d) DV^4F^{-3}
2. The potential energy of a particle varies with distance x as $U = Ax^{1/2}/(x^2 + B)$ where A and B are constants. The dimensional formula of Ax² is 1
 - (a) $M^1L^{7/2}T^{-2}$
 - (b) $M^1L^{11/2}T^{-2}$
 - (c) $M^1L^{5/2}T^{-2}$
 - (d) $M^1L^{9/2}T^{-2}$

3. Write the dimension of a/b in the relation $P = (a - t^2)/bx$ 1
 Where P is pressure, x is distance and t is time.
 (a) $M^{-1}L^0T^{-2}$
 (b) ML^0T^{-2}
 (c) ML^0T^2
 (d) MLT^{-2}
4. The relation between time t and distance x is $t = \alpha x^2 + \beta x$ 1
 where α and β are constants. The retardation is
 (a) $2\alpha v^3$
 (b) $2\beta v^3$
 (c) $2\alpha\beta v^3$
 (d) $2\beta^2 v^3$
5. The displacement x of a particle moving in 1-D under the action of constant force is related to time by $t = \sqrt{x} + 3$ 1
 where x is in meters and t is in seconds. Find the displacement of the particle when its velocity is zero
 (a) Zero
 (b) 12m
 (c) 6m
 (d) 18m
6. A parachutist drops first freely from an airplane for 10sec and then his parachute opens out. Now he descends with a net retardation of 2.5m/s^2 . If he bails out of his plane at a height of 2495m and $g = 10\text{m/s}^2$, his velocity on reaching the ground will be 1
 (a) 5m/s
 (b) 10m/s
 (c) 15m/s
 (d) 20m/s
7. A projectile can have range R for two angles of projections. If t_1 and t_2 are the times of flights in the two cases then choose the correct option 1
 (a) $t_1 t_2 \propto R^2$
 (b) $t_1 t_2 \propto R$
 (c) $t_1 t_2 \propto 1/R$
 (d) $t_1 t_2 \propto 1/R^2$

8. Given $\vec{P} = 3\hat{i} + 4\hat{j}$. Which of the following is perpendicular to \vec{P} ? 1
- (a) $3\hat{i}$
 (b) $4\hat{j}$
 (c) $4\hat{i} + 3\hat{j}$
 (d) $4\hat{i} - 3\hat{j}$

9. During a projectile motion if the maximum height equals the horizontal range, then the angle of projection with the horizontal is: 1
- (a) $\tan^{-1}(1)$
 (b) $\tan^{-1}(2)$
 (c) $\tan^{-1}(3)$
 (d) $\tan^{-1}(4)$

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):** Distance travelled by a particle in the n^{th} second has the dimension of length. 1

Reason (R): It is the distance travelled by the particle in the given time.

11. **Assertion (A):** A body with constant acceleration does not always move along a straight line. 1

Reason (R): A body with constant acceleration may not speed up.

12. **Assertion (A):** When a body is dropped or thrown horizontally from the same height it would reach the ground at same time. 1

Reason (R): Horizontal velocity has no effect on the vertical motion.

SECTION : B

- 13 The value of G in C.G.S. system is 6.67×10^{-8} 2
. Dynecm²/g². Calculate the value in S.I. unit.
- 14 Derive $v^2 - u^2 = 2as$ by the method of calculus, where 2
. the symbols have their usual meanings.
- 15 Find the component of $\vec{a} = 2\hat{i} + 3\hat{j}$ in the direction of 2
. vector $\hat{i} + \hat{j}$.

SECTION : C

- 16 The time period T of oscillation of a simple pendulum 3
. depends on the following quantities: Length of the pendulum (l) Mass of the bob (m) Acceleration due to gravity (g) Derive an expression for T using dimensional method.
- 17 A balloon is ascending at the rate of 9.8m/s. At height of 3
. 39.2m above the ground, when a food packet is dropped from balloon. After how much time and with what velocity does it reach the ground? ($g = 9.8 \text{ m/s}^2$)
- 18 Determine a unit vector perpendicular to both 3
. $\vec{A} = 2\hat{i} + \hat{j} + \hat{k}$ and $\vec{B} = \hat{i} - \hat{j} + 2\hat{k}$

SECTION-D

Case Study Based Questions

Read the following paragraph and answer the questions that follow.

- 19 Average velocity is equal to net displacement divided 4
. by the total time taken. The velocity of an object at any particular instant of time is called its instantaneous velocity. It is equal to the limit of the average velocity when the time interval becomes infinitesimally small. In uniform motion instantaneous velocity equals to average velocity. The slope of position time graph at any point gives the instantaneous velocity. Average acceleration is the change in the velocity divided by the time interval during which the change occur. The acceleration of an object at a particular instant of time is equal to instantaneous acceleration. It is equal to

the limit of the average acceleration as the time interval Δt goes to zero.

- (i) A particle moves along x axis with a position given by $x(t) = 5 + 3t$ where x is in meter and t is in second. The positive direction is east. Which of the following statement about the particle is false?
- (a) The particle is east of origin at $t=0$
 - (b) The particle is at rest at $t=0$
 - (c) The particle's velocity is constant
 - (d) The particle's acceleration is zero
- (ii) The particle moves in one-dimension. The velocity is given by $v(t) = c_2t^2 + c_1t + c_0$. What is the acceleration of the particle at $t=1$ sec.
- (a) $c_1 + 2c_2$
 - (b) zero
 - (c) $c_1 + c_2$
 - (d) c_1
- (iii) The displacement of a particle moving in a straight line is given by $x = 2t^2 + t + 5$ where x is expressed in meter and t is in sec. the acceleration at $t=2$ sec is
- (a) 4m/s^2
 - (b) 10m/s^2
 - (c) 8m/s^2
 - (d) 15m/s^2
- (iv) Given $a=2t+5$. Calculate the velocity of the body after 5 seconds if it starts from rest.
- (a) 50m/s
 - (b) 25m/s
 - (c) 100m/s
 - (d) 75m/s

One way produces a scalar resultant and called scalar product while another produces a vector resultant and called vector product.

Geometrically scalar product is equal to the magnitude of one vector and the component of other vector in the direction of first.

Scalar product obeys both commutative and distributive law.

Geometrically vector product is equal to twice the area of the triangle formed by the two vectors as its adjacent sides.

Vector product does not obey commutative law but obeys distributive law.

- (i) The angle between $\vec{A} = 5\hat{i} + 5\hat{j}$ and $\vec{B} = 5\hat{i} - 5\hat{j}$ will be
- zero
 - 90°
 - 45°
 - 180°
- (ii) If $|\vec{A} \times \vec{B}| = |\vec{A} \cdot \vec{B}|$ then the angle between \vec{A} and \vec{B} will be
- zero
 - 90°
 - 45°
 - 180°
- (iii) If $|\vec{A} \times \vec{B}| = \sqrt{3} |\vec{A} \cdot \vec{B}|$ then the value of $|\vec{A} + \vec{B}|$ is
- $(A^2 + B^2 + AB)^{1/2}$
 - $(A^2 + B^2 + AB/\sqrt{3})^{1/2}$
 - $A + B$
 - $(A^2 + B^2 + AB\sqrt{3})^{1/2}$
- (iv) When $\vec{A} \cdot \vec{B} = -|\vec{A}||\vec{B}|$ then
- Both are perpendicular to each other
 - Both act in the same direction
 - Both act in the opposite direction
 - They can act in any direction.

SECTION : E

- 21 A projectile is fired with a velocity u making an angle θ 5
 with the horizontal
- (a) Show that its trajectory is a parabola.
- (b) Determine the expression for its:
- (i) time of flight
- (ii) maximum height
- (iii) horizontal range.

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Name: _____ Sec: _____ Roll No.: _____

CODE-A

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

Time: $1\frac{1}{2}$ Hrs.

Maximum Marks: 40

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.

SECTION-A

1. The angular momentum of electrons in Hydrogen atom in the ground state is
(a) $2h$
(b) $h/2$
(c) $h/2\pi$
(d) $h/4\pi$
2. Which pair of atomic numbers represent s-block elements? 1
(a) 7,15
(b) 6,12
(c) 9,17
(d) 3,4
3. If 30ml of H_2 and 20ml of O_2 reacts to form water, what is left at the end of the reaction? 1
(a) 10ml of H_2
(b) 5ml of H_2
(c) 10ml of O_2
(d) 5ml of O_2

4. Which of the following molecule has highest dipole moment? 1
(a) BF_3
(b) B_2H_6
(c) NH_3
(d) NF_3
5. 6.5g of PbO and 3.2g of HCl react together. Calculate the moles of lead (II)chloride formed: 1
[At mass of Pb -207.2g , Cl -35.5g , O -16g , H -1g]
(a) 0.029
(b) 0.333
(c) 0.011
(d) 0.044
6. When the electron in hydrogen atom jumps from $n = 4$ to $n = 1$ state, the number of spectral lines emitted is : 1
(a) 15
(b) 9
(c) 6
(d) 3
7. Among the following , third ionisation energy is highest for : 1
(a) Mg
(b) B
(c) Be
(d) Al
[At no of Mg - 12 , B - 5 , Be - 4 , Al - 13]
8. What will be the nature of chemical bond between C , O and Cl 1
(a) Only ionic bond
(b) Only covalent bond
(c) Co-ordinate bond
(d) Both ionic and covalent bond

9. Atomic radius decreases in a period, but after halogens, the atomic radius suddenly increases. Thus, inert gases have almost the highest radius in a period. The explanation for such an increase is : 1
- (a) Inert gas has most stable configuration of the outer energy level.
 - (b) Inert gas does not take part in bonding
 - (c) In case of inert gas it is the Vander Waals' radius which is reported
 - (d) None of the above

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 and R is true.

10. **Assertion :-** The energy of an electron is largely determined by its principal quantum number. 1

Reason :- The principal quantum number is a measure of the most probable distance of finding the electron around the nucleus.

11. **Assertion :-** F- atom has lower electron affinity than Cl-atom. 1

Reason :- Additional electrons are repelled more effectively by 3p-electrons in Cl-atom than 2p-electrons in F-atom

12. **Assertion :-** Isoelectronic molecules and ions have identical bond order. 1

Reason :- With increase in bond order, bond length decreases

SECTION - B

13. How are 0.50 mole of Na_2CO_3 different from 0.50 M of Na_2CO_3 ? [At mass of Na-23g, C-12g and O-16g] 2

14. Name the element which has highest 2

- (a) Negative electron gain enthalpy
- (b) 1st Ionization energy

15. When a certain metal was irradiated with light of frequency $3.2 \times 10^{16} \text{ Hz}$, the photoelectrons emitted has twice the kinetic energy as emitted when the same metal was irradiated with light of frequency $2.0 \times 10^{16} \text{ Hz}$. Calculate the threshold frequency of the metal. 2
16. Define bond order and bond length. 2
17. Write the electronic configuration of the following elements:- 2
- (a) Al
(b) Cr^+
[At no of Al -13 , Cr - 24]

SECTION -C

18. Calculate the formal charge of the underlined atom in the following compounds:- 3
- (a) $\text{H}_2\text{S}\underline{\text{O}}_4$
(b) $\text{O}=\text{N}-\underline{\text{O}}^- [\text{NO}_2^-]$
(c) $\text{O}=\text{O}-\underline{\text{O}} [\text{O}_3]$
19. Give reason for the following:- 3
- (a) A student reported to the teacher that atomic size of Cu, Cu^+ , Cu^{2+} is 0.072nm, 0.096nm and 0.123nm respectively. Is this observation correct . If not, then why ?
(b) The cause of periodicity in properties of elements in modern periodic table.
(c) Alkali metals do not form dipositive cation (M^{2+})

20. If 10^{21} molecules are removed from 200mg of CO_2 , then how many moles of CO_2 is left? 3

SECTION - D

Question no 21 is a case based units. 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. The four quantum number n , l , m , and s are required to determine the energy and position of an electron in an atom. Energy of electron mainly depend upon the value of n . Maximum number of electrons in a shell is equal to $2n^2$. 4
- (a) How many electrons in a given atom have the following set of quantum numbers ?
 $n = 3$, $l = 2$, $m = +2$ and $s = -1/2$
- (b) For a given value of l , what is the total value of m ?
- (c) Write the correct set of four quantum numbers for valence electrons of potassium ($Z=19$).

OR

- (c) Considering the ground state of Mn - atom ($Z=25$) . Find out the number of electrons with azimuthal quantum no is equal to 1 and 2? respectively.

SECTION - E

22. I. Define limiting reagent and law of multiple proportion. 5
- II. CaCO_3 reacts with aqueous HCl to give CaCl_2 and CO_2 according to the reaction,
$$\text{CaCO}_3(\text{s}) + 2\text{HCl}(\text{aq}) \rightarrow \text{CaCl}_2(\text{aq}) + \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{l})$$

What mass of CaCO_3 is required to react completely with 25 ml of 0.75M HCl ?
[At mass of Ca-40g , C-12g , O-16g , H-1g , Cl-35.5g]

Name: _____ Sec: _____ Roll No.: _____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST 1: [2024 – 2025]

CHEMISTRY

CLASS : XI

Time: $1\frac{1}{2}$ Hrs.

Maximum Marks:

40

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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. Major development(s) responsible for the formulation of Bohr's model of atom were 1
- (a) Dual character of the electromagnetic radiation.
- (b) Experimental results regarding atomic spectra which can be explained only by assuming quantized electronic energy levels in atoms.
- (c) Both (a) and (b)

- (d) None of the above
2. Which of the following pairs show diagonal relationship? 1
- (a) B, Al
(b) Li, Na
(c) C, Si
(d) B, Si
3. In which of the following numbers all zeros are significant? 1
- (a) 0.0005
(b) 0.0500
(c) 50.000
(d) 0.0050
4. Which of the following substance has a dipole moment? 1
- (a) CCl_4
(b) CH_2Cl_2
(c) C_2Cl_2
(d) C_2Cl_4
5. A compound contains 69.5% oxygen, 30.5% nitrogen and its molecular weight is 92. The formula of the compound is- 1
- (a) N_2O
(b) NO_2
(c) N_2O_4
(d) N_2O_5
6. The maximum number of 3d electrons having spin quantum number $= +1/2$ 1
- (a) 10
(b) 14
(c) 5
(d) Any number from 1 to 10
7. The increasing order of the ionic radii among the following isoelectronic species- 1
- (a) S^{2-} , Cl^- , Ca^{2+} , K^+
(b) Ca^{2+} , K^+ , Cl^- , S^{2-}
(c) K^+ , S^{2-} , Ca^{2+} , Cl^-
(d) Cl^- , Ca^{2+} , K^+ , S^{2-}

8. Octet rule is not followed in 1
- (a) CaCl_2 , N_2O_4 and N_2O_5
(b) BF_3 , BeCl_2 and NO_2
(c) NaCl , MgCl_2 and MgO
(d) PCl_3 , NH_3 and H_2O
9. How does the ionization enthalpy of 1st group elements vary? 1
- (a) Increases down the group.
(b) Decreases down the group.
(c) Remains unchanged.
(d) Variation is not regular.

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):** The energy of each photons absorbed is directly proportional to the intensity of the radiation. 1
Reason(R): Maximum kinetic energy of the photoelectrons is proportional to the frequency of incident radiation.
11. **Assertion(A):** EA_1 of Fluorine is less than that of Chlorine. 1
Reason(R): Additional electrons are repelled more effectively by 3p electrons in Cl atom than by 2p electrons in F atom.
12. **Assertion(A):** Formal charges do not indicate real charge separation within the molecule. 1
Reason(R): Formal charges help in the selection of the lowest energy structure from a number of possible Lewis structures for a given species.

SECTION – B

13. 2

- (a) State the Law of multiple proportion.
- (b) Analysis of chlorophyll shows that it contains 2.68% Mg. How many atoms of Mg does 100g of chlorophyll contain?
14. Would you expect the first ionization enthalpies for two isotopes of the same element to be the same or different? Justify our answer. 2
15. What transition in the hydrogen spectrum would have the same wavelength as the Balmer transition $n=4$ to $n=2$ of He^+ spectrum? 2
16. Draw the Lewis dot structures of SO_2 and calculate the formal charge on each atom. 2
17. (a) State Pauli's Exclusion Principle. 2
- (b) What is the total number of orbitals associated with the principal quantum number $n=3$?

SECTION – C

18. (a) All carbon to oxygen bonds in CO_3^{2-} are equivalent. Justify using the concept of resonance. 3
- (b) In spite of the higher electronegativity of Fluorine, NH_3 has higher dipole moment than NF_3 . Why?
19. The first ($\Delta_i H_1$) and the second ($\Delta_i H_2$) ionization enthalpies (in KJmol^{-1}) and the ($\Delta_{\text{eg}} H$) electron gain enthalpy (in kJmol^{-1}) of a few elements are given below- 3

	$(\Delta_i H_1)$	$(\Delta_i H_2)$	$(\Delta_{\text{eg}} H)$
A	419	3051	-48
B	1681	3374	-328
C	738	1451	-40

Which of the above elements is likely to be:

- a) A non-metal?
- b) The most reactive metal?
- c) A metal forming binary halide of the formula MX_2 ($\text{X} = \text{Halogen}$)?
20. (a) Define limiting reagent. 3
- (b) Dinitrogen and dihydrogen react with each other to produce ammonia according to the following chemical equation:
- $$\text{N}_2(g) + 3\text{H}_2(g) \rightarrow 2\text{NH}_3(g)$$

- i) Calculate the mass of ammonia produced if $2.00 \times 10^3 \text{ g}$ dinitrogen reacts with $1.00 \times 10^3 \text{ g}$ of dihydrogen.
- ii) Will any of the two reactants remain unreacted? If yes which one and what would be its mass?

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. 4

A large number of orbitals are possible in an atom. Qualitatively these orbitals can be distinguished by their size, shape and orientation. The principal quantum number determines the size and to large extent the energy of the orbital. The principal quantum number also identifies the shell.

- (a) Write the electronic configuration of divalent ion of copper. ($Z=29$)
- (b) Which orbital is non-directional?
- (c) How many electrons in an atom can have $n+l=5$?

OR

- (c) The electronic configuration of N is $1s^2 2s^2 2p_x^1 2p_y^1 2p_z^1$ and not $1s^2 2s^2 2p_x^2 2p_y^1$ why?

SECTION – E

5

22. (a) Calculate the molarity of a solution of ethanol in water in which the mole fraction of ethanol is 0.040 (assume the density of water to be one).
- (b) If 20.0 cm^3 of 1.0 M CaCl_2 and 60.0 cm^3 of 0.20 M CaCl_2 are mixed, what will be the molarity of the final solution?
- (c) State Gay Lussac's Law of combining volumes.

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Name: _____ Sec: _____ Roll No.: _____

CODE:A

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST 1: [2024 – 2025]

BIOLOGY[044]

CLASS : XI

Time: 1½ Hrs.

Maximum Marks : 40

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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.

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Section – A

1. As we go from species to kingdom in a taxonomic hierarchy, the number of common characteristics will - 1
 - (a) decrease
 - (b) increase
 - (c) remain same
 - (d) increase or decrease

2. Interbreeding between two populations can occur if they belong to the same - 1
(a) order
(b) family
(c) genus
(d) species
3. Scientific study of diversity and evolutionary relationships of organisms is called - 1
(a) Taxonomy
(b) Systematics
(c) Anatomy
(d) Morphology
4. Red tides are caused by - 1
(a) *Rhizopus*
(b) *Euglena*
(c) *Gonyaulax*
(d) *Aspergillus*
5. The name virus was given by 1
(a) D.J. Ivanowsky
(b) M.W. Beijerinck
(c) W.M. Stanley
(d) R.H. Whittaker
6. *Trypanosoma* is- 1
(a) Amoeboid protozoan
(b) Flagellated protozoan
(c) Ciliated protozoan
(d) Sporozoan

7. Peat Moss is 1
(a) *Funaria*
(b) *polytrichum*
(c) *sphagnum*
(d) *cladonia*
8. Evolutionarily, which of the following are the first terrestrial plants to possess vascular tissues ? 1
(a) Gymnosperms
(b) Algae
(c) Bryophytes
(d) Pteridophytes.
9. Agar is obtained from - 1
(a) *Gelidium*
(b) *Chlorella*
(c) *Spirulina*
(d) *Volvox*

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 explanation of A.
c) A is true but R is false.
d) A is false but R is true.

10. A: Scientific names are derived from latin and are universal. 1
R: Latin is a dead language and there is less possibility of change in the meaning of the words.
11. A: Ascomycetes are sac - fungi. 1
R: Yeast is Ascomycetes.
12. A: Mosses reproduce by fragmentation. 1
R: They cannot reproduce sexually.

Section – B

- | | | |
|-----|--|---|
| 13. | What is diatomaceous earth? What is it used for? | 2 |
| 14. | How do liverworts reproduce asexually? | 2 |
| 15. | Name the four classes of pteridophyta. | 2 |

Section – C

- | | | |
|-----|---|---|
| 16. | State the universal rules of binomial nomenclature. Write the scientific name of wheat correctly. | 3 |
| 17. | (a) What are archaebacteria ? Give two examples.
(b) What is the function of heterocyst in <i>Nostoc</i> ? | 3 |
| 18. | Explain sexual reproduction in Bryophytes. | 3 |

Section – D

- | | | |
|-----|--|---|
| 19. | Fungi constitute a unique kingdom of heterotrophic organisms. They are cosmopolitan and can be found almost everywhere on earth.
(a) Name a unicellular fungi.

(b) What is meant by coenocytic hyphae ?

(c) Why are deuteromycetes called imperfect fungi ? | 4 |
|-----|--|---|
- OR
- | | | |
|-----|--|--|
| (c) | Write two characteristic features of basidiomycetes. | |
|-----|--|--|

20. Algae are chlorophyll bearing, simple, thalloid, autotrophic and largely aquatic organisms. They can be unicellular, colonial & filamentous. 4

(a) In which form do Red algae store its food? What is it's cell wall made up of ?

(b) Name the class of green algae.

(c) What are the major pigments present in phaeophyceae.

OR

(c) Name the major pigments present in rhodophyceae.

Section – E

21. In a tabular form differentiate between the five kingdoms proposed by Whittaker in 1969. 5

=====

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST - 1: [2024 – 2025]

BIOLOGY (044)

CLASS XI

Time: 1½ Hrs.

Maximum Marks : 40

General Instructions:

- i All questions are compulsory.
- ii The question paper contains five sections-A, B, C, D and E There are 21 questions in the question paper.
- iii Section A has 12 objectivetype questions of 1 mark each. Section B has 03 short answer type questions of 2 marks each. Section C has 03short answer typequestions of 3 marks each and section D consists of 2 casebased/source based units of assessment of 4 marks each with sub-parts (internal choice has been provided in one of the sub-parts). Section E has 01 long answer question of 5 marks.

SECTION-A

- | | | |
|----|---|---|
| 1. | ICBN stands for | 1 |
| | a)International Code for Biological Naming. | |
| | b) International Code for Botanical Nomenclature. | |
| | c) International Class for Biological Nomenclature. | |
| | d)International Classification for Biological Nomenclature. | |
| 2. | Smallest taxon of classification is | 1 |
| | a) Species b) Kingdom c) Family d) Genus. | |
| 3. | Which of the following has least similar character | 1 |
| | a) Family b) Class c) Genus d)Species. | |
| 4. | Aristotle divided animals into two groups on the basis of | 1 |
| | a) Cell complexity | |
| | b) Mode of nutrition | |
| | c) Body organisation | |
| | d) Presence or absence of Red Blood. | |
| 5. | Cyanobacteria also referred to as | 1 |
| | a) Blue –green bacteria | |
| | b) Blue –green algae | |
| | c) Archaeobacteria | |
| | d) Green bacteria. | |

6. Archaeobacteria differ from other bacteria in having different- 1
 a) Cell Wall structure
 b) Cell shape
 c) Mode of nutrition
 d) Ribosomal subunits.
7. Phylogenetic classification assumes that 1
 a) Organisms having different taxa have common ancestors
 b) Organisms having same taxa have common ancestors
 c) Organisms having same taxa have different ancestors
 d) Evolutionary relationship is not acceptable.
8. Which one of the following is not a pteridophyte? 1
 a) *Sellaginella*
 b) *Adiantum*
 c) *Cedrus*
 d) *Dryopteris*.
9. Find out the mismatched pair 1
 a) Agar -*Chlorella*
 b) Algin- Brown Algae
 c) Carrageen- Red Algae
 d) Single celled protein- *Spirulina*.

Question No. 10 to 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 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:** -The number and types of organisms present on Earth is called Biodiversity. 1
Reason:-The number of species that are known and described range between 2.7 to 2.8 million.
11. **Assertion:** -*Plasmodium* is a Sporozoan. 1
Reason: -Have an infectious spore like stage in their life cycle.
12. **Assertion:** - *Chlamydomonas*, *Volvox*, *Ulothrix* and *Spirogyra* are algae. 1
Reason: Algae are chlorophyll-bearing, simple, thalloid, autotrophic and

aquatic organisms

SECTION - B

13. Which organisms cause Red tides? Why are such organisms dangerous? 2
14. Why are bryophytes known as the amphibians of the plant kingdom? 2
15. Enlist some economic importance of Bryophytes. 2

SECTION - C

16. What is Binomial nomenclature? Mention the rules of Binomial nomenclature. 3
17. Explain briefly the various steps which occur during the sexual cycle in Fungi. 3
18. Differentiate between Green, Brown and Red algae on the basis of major pigments and stored food. 3

SECTION - D (CASE STUDY)

19. Bacteria are the sole members of the Kingdom Monera. They are the most abundant micro-organisms. Bacteria occur almost everywhere. They may live in extreme habitats such as hot springs, deserts, snow and deep oceans. They have various modes of nutrition. 4
- a) What are Archaeobacteria? (1)
- b) What are Chemosynthetic autotrophic bacteria? (1)
- c) What are methanogens? Where would one find such bacteria? (2)
- Or
- (c) Mention at least two ways by which bacteria reproduces. (2)
20. Algae are chlorophyll bearing simple thalloid, autotrophic and largely aquatic organisms. They occur in a variety of habitats moist stones, soils and wood. Some occurs in association with fungi. They may show vegetative, asexual and sexual modes of reproduction. Algae are divided in three classes Chlorophyceae, Phaeophyceae and Rhodophyceae. 4
- a) What are isogamous and Oogamous forms of sexual reproduction? (2)
- b) Mention any two examples of Red algae (1)

c) Mention the source of Agar. (1)

OR

c) Where is Agar used? (1)

SECTION – E

21 Represent the Five Kingdom classification as proposed by R.H. Whittaker and differentiate them on the basis of Cell type, cell wall, nuclear membrane, body organisation and modes of nutrition. 5

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Name: _____ Sec: _____ Roll No.: _____

CODE:A

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST-1:[2024-2025]

COMPUTER SCIENCE

CLASS-XI

Time: 1 ½ Hrs.

Maximum Marks: 40

General Instructions:

- The question paper is divided into 5 sections – A, B, C, D and E.
- **Section-A**, consists of 12 questions (1-12). Each question carries 1 mark.
- **Section-B**, consists of 5 questions (13-17). Each question carries 2 marks.
- **Section-C**, consists of 3 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
A mobile system works with electricity.
2. Which of the following components is the main memory of computer? 1
a)CD b)DVD
c)Internal hard drive d)RAM
3. The CPU is also known as 1
a)The Brain b)The Processor
c)The Central Processing Unit d)All of these
4. Components of CPU which is responsible for comparing the contents of two pieces of data is 1
a)ALU b)CU c)Memory d)Register
5. Flash memory and Blu Ray disk are the examples of 1
a)Hardware b)Software
c)CPU d)None of these
6. What is the name of the component that used to both read and writes data? 1
a)ROM b)RAM
c)Hard Drive d) Cache Memory

7. Which of the following is not a valid encoding scheme for characters? 1
 a)ASCII b)ISCII c)Unicode d)ESCII
8. ASCII code is a 7 bit code for _____ 1
 a)letters b)numbers
 c)other symbols d)all of these
9. The binary equivalent of the decimal number 10 is 1

 a)0010 b)10 c)1010 d)010
10. What is the value of the expression 100//25 ? 1
 a)4 b)4.0
 c)2.5 d)none of these

11 and 12 are ASSERTION (A) and REASONING (R) based Mark the correct choice as

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

11. ASSERTION: Utility software programs are application software 1
 REASON: Application software are the programs necessary to carry out operations for specific application.
12. ASSERTION: A Python program can contain executable and non-executable items. 1
 REASON: The comments are the non-executable parts of a program.

SECTION-B

Each question carries 2 marks

- | | | |
|-----|--|---|
| 13. | Convert (EB4A) ₁₆ to decimal | 2 |
| 14. | Convert (423) ₁₀ to Hexadecimal | 2 |
| 15. | Convert (4A8C) ₁₆ to Binary | 2 |
| 16. | What is the need for secondary memory? | 2 |
| 17. | How does the computer understand a program written in high level language? | 2 |

Section-C

Each question carries 3 marks

- | | | |
|-----|--|---|
| 18. | What is the difference between interactive mode and script mode in python? | 3 |
| 19. | Write a program to obtain three numbers and print their sum. | 3 |
| 20. | a) What are data types? What are Python's built-in core data types? | 2 |
| | b) Which data types of Python handle Numbers? | 1 |

Section-D

Each question carries 5 marks

- | | | |
|-----|--|---|
| 21. | a) What is the difference between a keyword and an identifier? | 2 |
| | b) Write a program to calculate BMI (Body Mass Index) of a person.
Body Mass Index is a simple calculation using a person's height and weight.
The formula is $BMI = \frac{kg}{m^2}$ where kg is a person's weight in kilograms and m ² is their height in meters squared. | 3 |

Section-E

Each question carries 4 marks

22. a) What is an Exception? 1
- b) What would be the **output** of the following code?
- ```
a= 3 + 5/8
b=int (3 + 5/8)
c=3+float(5/8)
d=3 + float(5)/8
e=3 + 5.0/8
f=int(3+5/8.0)
print(a, b, c, d, e ,f)
```
- 3

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Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_

CODE:B

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**  
**PERIODIC TEST-1: [2024-2025]**  
**COMPUTER SCIENCE**  
**CLASS-XI**

**TIME: 1 ½ Hrs.**

**Maximum Marks: 40**

**General Instructions:**

- The question paper is divided into 5 sections – A, B, C, D and E.
- **Section-A**, consists of 12 questions (1-12). Each question carries 1 mark.
- **Section-B**, consists of 5 questions (13-17). Each question carries 2 marks.
- **Section-C**, consists of 3 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  
A mobile system has its own little power unit.
2. Which of the following components is the main memory of computer? 1  
a)CD b)DVD  
c)Internal hard drive d)RAM
3. Which of the following is referred to the brain of computer? 1  
a)Processor b) RAM c)ROM d)Hard Drive
4. Word Processor and Desktop Publishing program are the example of 1  
a)Hardware b)Software c)CPU d)None of these
5. Flash memory and Blu Ray disk are the examples of 1  
a)Hardware b)Software c)CPU d)None of these
6. Which of the following memory types will store the data or information permanently? 1  
a)RAM b)Cache c)Flash Memory d)Hard disk
7. Which of the following is not a valid encoding scheme for characters? 1  
a)ASCII b)ISCII c)Unicode d)ESCII

8. ASCII code is a 7 bit code for \_\_\_\_\_ 1  
 a) letters b) numbers  
 c) other symbols d) all of these
9. The binary equivalent of the decimal number 10 is 1

10. \_\_\_\_\_  
 a) 0010 b) 10 c) 1010 d) 010  
 What is the value of the expression  $100 // 25$  ? 1  
 a) 4 b) 4.0 c) 2.5 d) none of these

**11 and 12** are ASSERTION (A) and REASONING (R) based Mark the correct choice as

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

11. ASSERTION: A computer can deliver performance only through an efficient combination of hardware and software. 1  
 REASON: While hardware refers to the physical electronics equipment, software is the recorded programs that govern the hardware to perform tasks in a computer.
12. ASSERTION: Python provides these tokens: Keywords, identifiers, literals, punctuators, operators and comments. 1  
 REASON: A token is the smallest individual unit in a program.

### **SECTION-B**

**Each question carries 2 marks**

13. Convert (FACE)<sub>16</sub> to binary. 2  
 14. Convert (EB4A)<sub>16</sub> to decimal 2  
 15. Convert (72905)<sub>10</sub> to hexadecimal 2  
 16. What is the difference between RAM and ROM? 2  
 17. What is application software? Give example 2

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

- |     |    |                                                                                     |   |
|-----|----|-------------------------------------------------------------------------------------|---|
| 18. | a) | What is the difference between interactive mode and script mode in python?          | 3 |
| 19. |    | Write a program to obtain length and breadth of a rectangle and calculate its area. | 3 |
| 20. | a) | How many types of strings are supported in python?                                  | 2 |
|     | b) | Which data types of Python handle Numbers?                                          | 1 |

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

- |     |    |                                                                               |   |
|-----|----|-------------------------------------------------------------------------------|---|
| 21. | a) | What is the difference between a keyword and an identifier?                   | 2 |
|     | b) | Write a program to enter five subjects marks and calculate total and average. | 3 |

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

- |     |    |                                                                                                                          |   |
|-----|----|--------------------------------------------------------------------------------------------------------------------------|---|
| 22. | a) | What is an Exception?                                                                                                    | 2 |
|     | b) | What will be the output produced by the following code?<br><code>print (11 + 3)</code><br><code>print('11' + '3')</code> | 2 |

=====



Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_  
CODE : A

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**  
**PERIODIC TEST - I: (2024– 2025)**  
**PHYSICAL EDUCATION**  
**CLASS: XI**

**Time: 1½ Hrs.**

**Maximum Marks : 40**

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**General Instructions:**

1. The question paper contains 17 questions and all are compulsory.
2. Question No. 1 to 8 carry 01 mark each and are Multiple Choice Questions.
3. Question No. 9 and 10 carry 02 marks each and shall not exceed 40 to 60 words.
4. Question No. 11 carries 03 marks shall not exceed 80 to 100 words.
5. Question No. 12 to 16 case based questions carry 04 marks each.
6. Question No. 17 carries 05 marks each and shall not be exceed 150 - 200 words.

=====

**Choose the correct option:**

1. "Physical education is that phase of the whole field of education that deals with big muscle activities and their related responses "-who said this? 1  
a) C.A Bucher                      b) C.C Cowell  
c) J. B Nash.                      d) J. F Williams
2. Uber Cup is related to: 1  
a) Badminton                      b) Cricket  
c) Table tennis                      d) Football
3. What is the primary goal of physical education? 1  
a) Increase productivity  
b) Decrease productivity  
c) Improve academic scores  
d) Improve professional relationship

4. In which year the first Summer Olympic Games was held? 1  
a)1892                      b)1896  
c)1921                      d) 1932
5. Who was the first President of IOC ? 1  
a) Baron de Coubertin                      b) C.L. Brownell  
c) Dr. Noehren                      d) Demitrios Vikelas
6. Where will the 2028 Olympic Games be held ? 1  
a) Paris.                      b) Tokyo  
c) Rio de Janeiro                      d) Los Angeles
7. How many elements are there in Yoga? 1  
a)5.                      b)6.                      c)7                      d)8
8. Which one of the following is not an example of Yama? 1  
a) Truthfulness                      b) Non stealing  
c) Santosh                      d) Aparigraha

**Answer the following questions.**

9. Write a short note on Olympic Oath. 2

**OR**

Write a short note on Olympic Flame.

10. Mention two importance of asana. 2
11. Write down a brief note on 'Khelo India' programme. 3

**OR**

Explain in detail the various sports media related careers in the field of physical education.

**Case Based questions.**

**(Based on the following passages answer the questions)**

12. At school level a coach may be required to teach physical education and also to coach a team. In colleges and universities coaches may be appointed from SAI. 1x4=4

(i) What is the full form of SAI?

- a) Sports Aquatic in India.
- b) Sponsor Authority of India
- c) Sports Authority of India.
- d) State Authority of India

(ii) In which year the SAI was established?

- a)1976      b)1984      c)1986      d)1987

(iii) Where is the headquarter of SAI?

- a)Kolkata      b)Delhi
- c)Mumbai      d)Chennai

(iv) Under which department SAI is going to run?

- a)Government of India
- b)Sports Department
- c)Ministry of Youth Affair and Sports
- d)All the above

13. According to the available information in history the first ancient Olympic Games started in Olympia Valley . therefore these games were called Olympic Games. 1x4=4

(i) In which year the first ancient Olympic Games were started ?

- a) 767BCE      b)769BCE
- c)776BCE      d )778BCE

(ii) Which country has organised 1st ancient Olympic Games?

- a)Greece      b)America      c)Russia      d)Brazil



(iii) What was the goal of ancient Olympic Games?

- a) Worship their Gods
- b) Contribute the building a peaceful and better world
- c) Citius, Altius, Fortius
- d) Friendship and Solidarity

(iv) Who was the founder of ancient Olympic Games?

- a) Zues              b) Correbus      c) Apollo      d) Hercules

14. Sports competitions should be held every fourth year on the lines of Greek Olympic Games and every nation should be invited to participate . After much endeavour Coubertin succeeded in enlisting worldwide support and the first modern Olympic Games were held in Greece. 1x4=4

(i) Who is the father of modern Olympic Games?

- a) Jamshedji Tata              b)Dr.Noehren
- c) Baron de Coubertin      d)D.Vikelas

(ii) Howmany countries where participated in first modern Olympic Games?

- a)10      b)12.      c)14      d)16

(iii) What is the motto of modern Olympic Games?

- a) Altius and Fortius.              b) Citius ,Altius Fortius
- c) Citius , Fortius.              d)All the above

(iv) Which country will be the host in 2024 summer Olympic Games?

- a) France              b) America      c) Greece      d) Australia

15. In many cultures yoga is now a way of life .An average person can perform basis actions in yoga regularly to help achieve better health . We can get rid of stress related problems by practicing yoga. Yoga is a spiritual Kamdhenu. 1x4=4

(i) What do you mean by yoga ?

- a)Tournament              b)Running
- c)Samadhi              d)Unite or to join

- (ii) Who said yoga is a spiritual Kamdhenu?  
 a) Patanjali                      b) Swami Sampurnanand  
 c) Ved Vyas                      d) Swami Ramananda
- (iii) What are the importance of yoga?  
 a) Reduce mental tension  
 b) Cure and prevention from diseases  
 c) Reduce obesity  
 d) All of these
- (iv) Who invented yoga?  
 a) Maharshi Patanjali                      b) Swami Vivekananda  
 c) Ved Vyas                      d) Tulsidas

16. Sarah, a 17 years old student was struggling with back pain and poor posture due to long hours of studying and sitting at her desk. Concerned about her health she decided to incorporate yoga into her daily routine. After just a few weeks of practicing yoga poses targeted at improving posture and strengthening her back muscles, Sarah noticed a significant reduction in her back pain and an improvement in her posture. She also experienced increased flexibility and felt more energized throughout the day. 1x4=4

- (i) What prompt Sarah to incorporate yoga into her daily routine?  
 a) Joint pain                      b) Back and poor posture  
 c) Headache                      d) stress
- (ii) What benefits did Sarah experience from practicing yoga?  
 a) Increased stress levels  
 b) Reduce back pain and improved posture  
 c) Decreased flexibility  
 d) Feeling fatigued throughout the day
- (iii) How long did it take for Sarah to notice improvement in her back pain and posture?  
 a) After a month                      b) After few weeks  
 c) Several days                      d) One year

- (iv) What type of yoga process did Sarah focus on to address her specific concerns?
- a) Poses for arm strength.
  - b) Poses for balance
  - c) Poses for flexibility
  - d) Poses for improving posture and strengthening back muscles

**Long answer type question.**

17. What are the aims and objectives of physical education? 5
- OR**
- Write about the values of Olympism.

=====

Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_  
CODE : B

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**  
**PERIODIC TEST - I: (2024– 2025)**  
**PHYSICAL EDUCATION**  
**CLASS-XI**

**Time: 1½ Hrs.**

**Maximum Marks : 40**

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**GENERAL INSTRUCTIONS:-**

- 1) *The question paper consists of 5 sections and 17 questions.*
  - 2) *Section-A consists of questions no.1-8 carrying 1 mark each and is multiple choice questions. All are compulsory.*
  - 3) *Section-B consists of questions no. 9 &10 carrying 2 marks each and very short answer types and should not exceed 60-90 words.*
  - 4) *Section-C consists of questions no.11 carrying 3 marks and 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 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. “Physical Education is the sum of those experiences which come to the individual through movement. “ 1  
Who said this?
- a) Charles A Bucher
  - b) Irwin
  - c) Lumpkin
  - d) None of these

- Q.2. Khelo-India strives to promote \_\_\_\_\_? 1
- a) 'Sports for one ' as well as sports for all"
  - b) 'Sports for all ' as well as 'Sports for excellence"
  - c) 'Sports for one ' as well as sports for many"
  - d) None of these
- Q.3. **Given below are the two statements labelled Assertion and Reason.** 1
- Assertion (A):-** khelo-India is the programme to develop and promote the games and sports at grass root level in India.
- Reason (R):-** It's a political organisation which works for publicity.
- In the context of the above two statements, which one of the following is correct?**
- 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.4. Olympic flag consists of interlock of... 1
- a) Red, Blue, Black rings
  - b) Red, Green, Black rings
  - c) Red, Black, Blue, Green, Yellow rings
  - d) Black, Brown, Blue, Green, Yellow rings
- Q.5. Where will next Summer Olympics Games to be scheduled in 2024? 1
- a) Tokyo
  - b) Rio
  - c) London
  - d) Paris
- Q.6. Where did the Ancient Olympic Games were played? 1
- a) Olympaid
  - b) Paris
  - c) London
  - d) None of these

Q.7. On which date is the International Yoga Day celebrated every year? 1

- a) 15<sup>th</sup> August
- b) 21<sup>st</sup> June
- c) 26<sup>th</sup> January
- d) 21<sup>st</sup> July

Q.8. Yoga is..... 1

- a) Performing Asana
- b) Performing Pranayama
- c) Union with Aatma and Paramatma
- d) To be honest

### **SECTION-B**

Q.9. Mention any two rules of Ancient Olympic Games. 2

Q.10 Write the names of any four limbs of yoga. 2

### **SECTION-C**

Q.11. Give a list of career options in physical education and explain any one career option in detail. 3

### **SECTION-D**

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

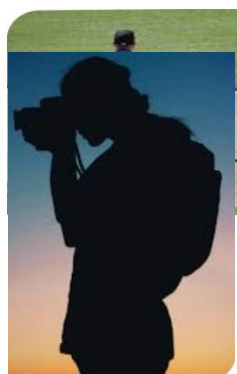
**B**  
Identify the profession in sports :

Based on this case answer the following questions:

**A**



**D**



**C**



Q.13 **CASE-BASED QUESTIONS:**

4×1=4

- . The International Olympic Committee consists of President, Vice Presidents and the members of the Executive Board.

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

- a) The President will be elected for \_\_\_\_\_ years.
- b) \_\_\_\_\_ VPs are elected for a term offour years.
- c) When is the President eligible for a re-election?
- d) Where is the IOC based in?

**Q.14 Look at the following figure and answer these questions:**

4×1=4



- a) What do the five rings of the given flag represent?
- b) The Olympic flag was first hoisted in \_\_\_\_\_.
- c) What does the white background of the flag symbolise?
- d) The Olympic symbol of five rings was designed by \_\_\_\_\_.

**Q.15 Value-Based Question:**

4×1=4

- . During summer vacations, Neha decided to join a Yoga camp with one of her friends, Jenny. Their Yoga trainer taught them different types of Pranayama. He told them about the importance of yoga in one's life. "Yoga is nothing but discipline". Yoga helps to become creative, focused and develops positive qualities in life. He suggested them to practice asanas and breathing exercises every day. He suggested them to live healthy and maintain positive lifestyle by adopting healthy eating habits. After re-joining school, they continued to practice yoga. They felt some physiological changes as well as psychological changes in them.

**Answer the following questions based on the above passage:**

- What are the different types of Pranayama?
- What is the importance of yoga in our life?
- What are the values shown by Neha during the camp?
- What are the three constituents of Pranayama?

**Q.16 CASE-BASED QUESTIONS:**

4×1=4

- . An expert has been called to demonstrate different yogic kriyas in a school campus and also the students.

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

- Which of the kriyas will be taught to children for training the eyes?
- The expert tells the students to perform nauli regularly. What are the benefits of nauli?
- \_\_\_\_\_ Kriya will help in cases of sinusitis.
- \_\_\_\_\_ is a method of churning or shaking the belly to stimulate the intestines, strengthen the liver and ease the processes of digestion and ejection.



### **SECTION-E**

- Q.17 What are the features of khelo-India programme? 5  
. Write about any five in detail.

=====

Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_

CODE: A

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

**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. The object in a sentence is of two types. Name them. 1
- ii. What do you understand by 'Self Exploration'? 1
- iii. Which of the following method is used to give information to the receiver? 1
  - a. Speaking      b. Listening      c. Both (a) & (b)      d. none
- iv. Identify the type of sentence: 1  
"All delicious things are tasty."
  - a. Interrogative   b. Declarative   c. Imperative      d. none
- v. In SMART model, what does 'T' stands for? 1
  - a. Testing      b. Time-bound   c. Target      d. none
- vi. When you are well groomed, you ensure that: 1
  - a. Your hair and finger nails are clean.
  - b. Your clothes are clean and well-pressed.
  - c. Both (a) & (b)
  - d. none
- vii. \_\_\_\_\_ is the way people wish each other when they meet for the first time. 1
- viii. \_\_\_\_\_ management helps to make a daily timetable. 1
- ix. State TRUE or FALSE: 1  
"Assertive communicators express their thoughts in a polite manner."
- x. State TRUE or FALSE: 1  
"Self-management means controlling oneself or regulating your own self"

2.

### **Answer the following 09 questions (1 x 09 = 09 marks)**

- i. What is the use of Help tab in OpenOffice Writer software? 1
- ii. Name the two types of Ruler Bar. 1
- iii. Which of the following are types of filters? 1
  - a. Auto Filter      b. Advance Filter
  - c. Both (a) & (b)      d. none
- iv. In OpenOffice Calc, the SORT command is available in the \_\_\_\_\_ menu. 1
  - a. Insert      b. Data      c. Tools      d. none

- v. The \_\_\_\_ sign before row number and column label makes the cell address absolute. 1  
 a. # b. & c. \$ d. none
- vi. \_\_\_\_ copies the text from the current location to the target location. 1  
 a. Copy Text b. Move Text c. Both (a) & (b) d. none
- vii. \_\_\_\_ is the working area where the text of the slide is typed. 1
- viii. In OpenOffice Calc, a worksheet contains \_\_\_\_ columns. 1
- ix. State whether the following statement is **True** or **False**: 1  
 ‘A slide master is a slide that is used as the ending point for other slides.’

### **SECTION-B: SUBJECTIVE TYPE QUESTIONS**

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

3. Name the four common types of communication styles. 2
4. ‘Practising good personal hygiene is beneficial for two reasons’. 2  
 Mention the two reasons.
5. Name and define the two types of motivation. 2

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

6. What will be the output of the following: 2  
 a) =MAXA(A1:A5)  
 where A1, A2, A3, A4, A5 has 2, 4, -2, “A”, 10.  
 b) =MAXA(B1:B5)  
 where B1, B2, B3, B4, B5 has -1, -3, -4, “B”, -20.
7. What is the function of the ‘Save As’ option in OpenOffice Writer? 2

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

8. Identify the types of addressing from the list given below: 3  
 a) = M3 + M4  
 b) =C13 + D14  
 c) = \$M\$6 + \$N\$6  
 d) = \$D\$3 + \$E\$4  
 e) = \$M3 + N\$4  
 f) = M\$3 + \$N4

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

9. In a spreadsheet, cells X1 to X5 contains values: 2, "APPLE", 3, 1 and 4. 4  
Write down the outputs for the following formulas.  
a) = SUM (X1:X5)  
b) = MIN (X1:X5)  
c) = MINA (X1:X5)  
d) = AVERAGE (X5)
10. Sunidhi is word processing her chemistry workbook. She wishes to include her roll number in a header and page numbers in a footer. 4  
(a) What is a footer? (1)  
(b) How is a header different from footer? (1)  
(c) In next coursework, Sunidhi only wants to add page Numbers.  
(i) Where should she put page numbers: (1)  
▪ in header or  
▪ in footer or  
▪ in the text of every page.  
(ii) Can she add a footer without adding header? (1)

=====

Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_

CODE: B

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

**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. Name the two types of Verbal communication. 1
- ii. What do you understand by 'Personal Hygiene'? 1
- iii. Which of the following method is used to receive information from the sender? 1
  - a. Speaking      b. Listening      c. Telling      d. none
- iv. Identify the type of sentence: 1  
"Please don't give the sweet to the dog."
  - a. Interrogative   b. Declarative   c. Imperative      d. none
- v. In SMART model, what does 'S' stands for? 1
  - a. Specific      b. Simple      c. Sustainable      d. none
- vi. When you are well groomed, you ensure that: 1
  - a. Your shoes are well polished.
  - b. Your hair is in proper style.
  - c. Both (a) & (b)
  - d. none
- vii. \_\_\_\_\_ means to introduce yourself or someone else to another person. 1
- viii. \_\_\_\_\_ management helps to complete tasks on time. 1
- ix. State TRUE or FALSE: 1  
"Aggressive communication style is shown by speaking in loud and demanding voice and often expressing one's opinions without hesitation."
- x. "Self-management means taking responsibility for one's behaviour and well-being" 1

2.

### **Answer the following 09 questions (1 x 09 = 09 marks)**

- i. What is the use of the 'Undo' option? Also, give the shortcut key for 'Undo'. 1
- ii. What is the function of 'Ruler Bar'? 1
- iii. \_\_\_\_\_ function is used to calculate the absolute value of a number n. 1
  - a. ABSL( )      b. ABSOLUTE(n)      c. ABS(n)      d. none

- |       |                                                                                                                                       |   |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|---|
| iv.   | In OpenOffice Calc, the heavy black border around the selected cell indicates that the selected cell is the ____ cell.                | 1 |
|       | a. Highlight      b. Passive      c. Active      d. none                                                                              |   |
| v.    | ____ moves the text from the current location to the target location.                                                                 | 1 |
|       | a. Copy Text      b. Move Text      c. Both (a) & (b)      d. none                                                                    |   |
| vi.   | ____ function is used to calculate the square root of a number n.                                                                     | 1 |
|       | a. MinA( )      b. SQRT(n)      c. Sqr(n)      d. none                                                                                |   |
| vii.  | ____ pane displays the slides as thumbnails.                                                                                          | 1 |
| viii. | In OpenOffice Calc, a worksheet contains ____ rows.                                                                                   | 1 |
| ix.   | State whether the following statement is <b>True</b> or <b>False</b> :<br>'Normal view is the main editing view for creating slides'. | 1 |

### **SECTION-B: SUBJECTIVE TYPE QUESTIONS**

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

- |    |                                                                                               |   |
|----|-----------------------------------------------------------------------------------------------|---|
| 3. | Differentiate between Active voice and Passive voice.                                         | 2 |
| 4. | Write down the four steps for building self-motivation.                                       | 2 |
| 5. | 'Practising good personal hygiene is beneficial for two reasons'.<br>Mention the two reasons. | 2 |

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

- |    |                                                                                                                                                                                      |   |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 6. | What will be the output of the following:<br>a) =MINA(A1:A5)<br>where A1, A2, A3, A4, A5 has 2, 4, -2, "A", 10.<br>b) =MINA(B1:B5)<br>where B1, B2, B3, B4, B5 has 1, 3, 4, "B", 20. | 2 |
| 7. | Differentiate between <b>Print Layout</b> and <b>Web Layout</b> in OpenOffice Writer                                                                                                 | 2 |



### Answer the following 1 question

(3 x 1 = 03 marks)

8.

Identify the types of addressing from the list given below:

3

- a) = \$C3 + D\$4
- b) = R\$3 + \$S4
- c) = \$D\$3 + \$E\$4
- d) = \$P\$3 + \$Q\$4
- e) = X3 + Y4
- f) = U3 + V4

### Answer the following 2 questions

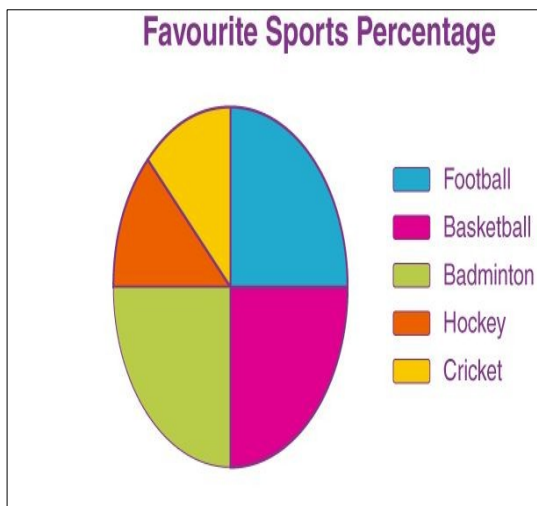
(4 x 2 = 08 marks)

9.

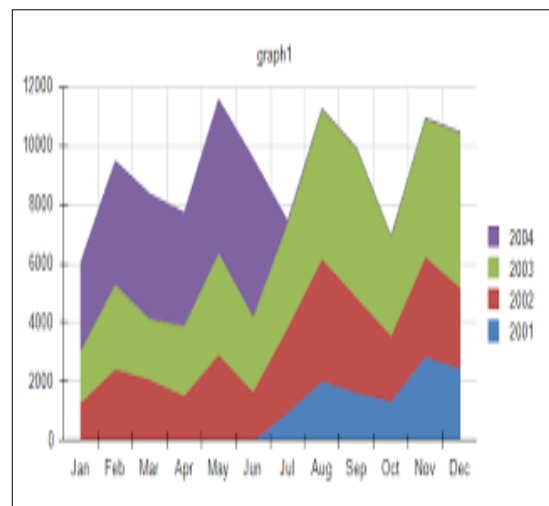
Identify the type of charts given below:

4

a.



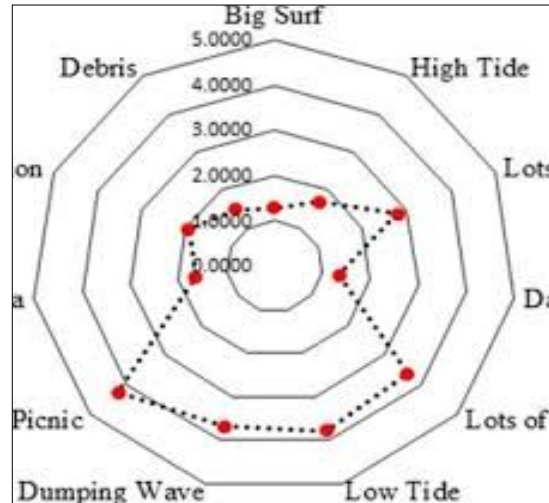
b.



c.



d.



10. In a spreadsheet, cells M6 to M10 contains values 15, 16, 17, 18 and 19. Write down the formulas using functions for the following questions. 4
- a) To calculate the total of the numbers.
  - b) To calculate the product of the numbers.
  - c) To calculate the average of the numbers.
  - d) To calculate the square root of the number in cell M11.

=====



**CODE-A**

**Name:** \_\_\_\_\_ **Sec:** \_\_\_\_\_ **Roll No.:** \_\_\_\_\_

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST I: [2024-2025]

ACCOUNTANCY

CLASS: XI

**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) 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. | External users of accounting information are:                | 1                      |
|    | a) Researchers                                               | b) Potential Investors |
|    | c) Government                                                | d) All of the above    |
| 2. | The basic accounting postulates are denoted by:              | 1                      |
|    | a) Concepts                                                  | b) Accounting standard |
|    | c) Convention                                                | d) Accounting          |
| 3. | Purpose of financial accounting is to ascertain:             | 1                      |
|    | a) Profit & Loss of the owner or proprietor                  |                        |
|    | b) Value of assets and liabilities of the organization       |                        |
|    | c) Financial position of the owner or proprietor             |                        |
|    | d) profit or Loss and Financial position of the organization |                        |



12. Godrej Ltd. imported from Germany one machinery for sale in India and another machinery for production purpose. How will you treat machinery in accounting? Justify your answer 3
13. Give one example of each of the following transactions: 4  
Increase in an asset and a liability  
Decrease in an asset and a liability  
Increase in asset and capital  
Decrease in asset and capital
14. Distinguish between Book-keeping and Accountancy. 4
15. Under which principle the caliber or quality of the management is not disclosed in the balance sheet? Explain the concept. 4
16. Analyze the effect of each transaction on assets and liabilities and show that the both sides of Accounting Equation remains equal: 6  
Introduce ₹80,000 as capital.  
Purchase goods on credit ₹30,000.  
Purchase goods on cash ₹10,000.  
Purchase machinery ₹15,000 for cash.  
Withdrew for private use ₹2,000.  
Paid interest ₹1,500.
17. Identify the following concepts: 6
  - (i) In this accounting concepts business has a distinct and separate entity from its owner.
  - (ii) The accounting concepts state that only those transaction will be recorded in the books of accounts which can be expressed in terms of money.
  - (iii) This concept of accounting assumes that a firm would continue for long period of time and would not be liquidated in the foreseeable future.
  - (iv) The accounting concept which refers to span of time at the end of which the financial statement of an enterprise is

prepared to know whether it is earned profit or loss during that period.

- (v) This accounting concept requires that all assets are recorded in the book of accounts at their purchase price.

- (vi) The accounting concept which state that every business transaction has a twofold effect and should therefore recorded in two sides.

=====

**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) 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. HCL Ltd Co wants to buy a building for its new business. 1  
Which of the following is the relevant data for recording?  
a) Prepare a plan for investing a suitable way  
b) Analyze building cost of 2021  
c) Analyze building cost of 2023  
d) Proceeds in purchasing new building and paid legal fees for this purpose of ₹5,000
2. The basic accounting postulates are denoted by: 1  
a) Concepts b) Accounting standard  
c) Convention d) Accounting
3. Which quantitative feature of accounting information is 1  
reflected when accounting information is clearly presented?  
a) Comparability b) Understandability  
c) Relevance d) Reliability
4. Accounting equation signifies: 1



5. a)  $L = A + C$  b)  $C = A + L$   
 c)  $A = L + C$  d)  $A = L - C$   
 IFRS are based on: 1
6. a) Fair value b) Historical cost  
 c) Market value d) Both a & c  
 Cash, goods or asset invested by the proprietor in the business for earning profit is called: 1
7. a) Profit b) Cash  
 c) Fixed Assets d) Capital  
 A document which provides evidence of transaction is known as \_\_\_\_\_ 1
8. a) Invoice b) Slip  
 c) Voucher d) Bill  
 \_\_\_\_\_ Concept requires all material and relevant financial performance are fully disclosed with necessary footnotes. 1
9. a) Consistency Concept b) Matching Concept  
 c) Full Disclosure Concept d) Periodic Concept  
 Accounting equation is also known as: 1
10. a) Proprietor equation b) Accrual equation  
 c) Capital & Asset equation d) Balance Sheet equation  
 The factors for which basis of accounting created are: 1
11. (i) a) Recognition of revenue b) Recognition of gain  
 (ii) c) Recognition of cost d) Both a & c  
 What is original book of entry and principal book of entry? 3  
 Write down various type of original book of entry.
12. Explain each of the following term with proper example: 3  
 i) Assets ii) Liabilities
13. Write down the effect of following transaction in a business organization whether it will increase or decrease assets and 4

liabilities:

Paid to creditors by cash.

Introduce additional capital in business.

- |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 14. | Distinguish between Book-keeping and Accounting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4 |
| 15. | One of the biggest steps to develop country is to make the nation One Country One Tax-based nation.<br>In the light of above statement explains the concept. Also explain how this concept is beneficial to nation.                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4 |
| 16. | Analyze the effect of each transaction on assets and liabilities and show that the both sides of Accounting Equation remains equal:<br><br>(i) Introduce ₹50,000 as capital.<br>(ii) Purchase goods on credit ₹4,000.<br>(iii) Purchase goods on cash ₹1,000.<br>(iv) Purchase furniture ₹8,000 for cash.<br>(v) Withdrew for private use ₹500.<br>(vi) Paid rent ₹500.                                                                                                                                                                                                                                                                                  | 6 |
| 17. | Identify the following concepts:<br><br>(i) In this accounting concepts business has a distinct and separate entity from its owner.<br><br>(ii) The accounting concepts state that only those transaction will be recorded in the books of accounts which can be expressed in terms of money.<br><br>(iii) This concept of accounting assumes that a firm would continue for long period of time and would not be liquidated in the foreseeable future.<br><br>(iv) The accounting concept which refers to span of time at the end of which the financial statement of an enterprise is prepared to know whether it is earned profit or loss during that | 6 |

period.

- (v) This accounting concept requires that all assets are recorded in the book of accounts at their purchase price.
- (vi) The accounting concept which state that every business transaction has a twofold effect and should therefore recorded in two sides.

=====

Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST I: [2024-2025]

BUSINESS STUDIES

CLASS: XI

**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 about 150 words.
- (vi) Answer to the question carrying 6 marks may be about 200 words
- (vii) Attempt all parts of a question together.

- =====
- =
1. The occupation in which people work for others and get remunerated in return is: 1
    - (a) Profession
    - (b) Business
    - (c) Employment
    - (d) Both a & c
  2. \_\_\_\_\_ is established under special act of parliament. 1
    - (a) Partnership
    - (b) Statutory Corporation
    - (c) HUF
    - (d) Departmental Undertaking
  3. Profits do not have to be shared. This statement refers to: 1
    - (a) Sole proprietorship
    - (b) Cooperative Society
    - (c) Joint Hindu Family business
    - (d) Partnership

4. The industries which provide support services to other industries are known as: 1
- (a) Primary Industry (b) Secondary Industry  
(c) Tertiary Industry (d) Commercial Industry
5. The head of the Joint Hindu Family business is called: 1
- (a) Proprietor (b) Director  
(c) Karta (d) Secret partner
6. Assertion (A): MNCs create numerous employment opportunities in host countries. 1  
Reason(R): MNCs make foreign direct investment, which leads to economic development of host countries.
- (a) Both Assertion (A) and Reasoning (R) are true and Reason(R) is the correct explanation of Assertion (A).  
(b) Both Assertion (A) and Reasoning (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.
7. Following are the features of joint stock company except one. 1  
Find out the exceptional one:
- (a) Formation  
(b) Separate Legal entity  
(c) Artificial person  
(d) Lack of business continuity
8. Assertion (A): Political interference is a demerit of a govt. company. 1  
Reason(R): The operational policies of the govt companies are formed according to the whims and fancies of the ministers.
- (a) Both Assertion (A) and Reasoning (R) are true and Reason(R) is the correct explanation of Assertion (A).  
(b) Both Assertion (A) and Reasoning (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.

9. In a cooperative society principle followed is: 1
- (a) One share one vote  
 (b) One share one vote  
 (c) No vote  
 (d) Multiple votes
10. Commerce includes: 1
- (a) Trade and aids to trade (b) Business & industry  
 (c) Business and trade (d) Industry and trade
11. The business assets of an organization amount to ₹50,000 but the debt remain unpaid are ₹80,000. What course of action can the creditors take for the following situations? Write the reason also for your answer: 3
- a) The organization is partnership firm  
 b) The organization is HUF.
12. Explain any three types of business risk with example. 3
13. Identify the following concepts. 4
- (i) Rama is a partner in a business who has no actual interest in business trade or its profits but she is paid fees by the firm for providing her name to the firm.
- In Ram and Hari Co Ltd Gopal is also a partner but his name is
- (ii) not disclosed to public.
- Geet is a type of partner who is merely contributing capital, shares profit and loss if any.
- (iii)
- In Ram and Hari Company, Hari is actively doing all his duty towards the business besides contributing capital, shares
- (iv) unlimited liability and profit and loss.

14. Ruchi is practicing CA in Hyderabad, she has her own firm. She files in providing Income tax and GST related services to her client with reasonable consultancy fees. Amrut her brother who is also C.A. recently joined a MNC as a financial officer of the company. 4
- (i) Identify the type of economic activity Ruchi and Amrut are engaged in by quoting line from above paragraph.
- (ii) Write any two points which explain the difference between two economic activities of (i).
15. It is the oldest and traditional form of public enterprises. It is suitable for public utility services and strategic industries 4
- (i) Identify the concept stated above.
- (ii) Write down features of the concept of (i)
16. Joint ventures can prove to be extremely beneficial for all the parties involved in it. 6
- In light of the above statement explain benefits of Joint venture.
17. Unlike a partnership or a proprietorship firm this form of business organization is separate from its owner. Such firms have legal entity and do not depend on any owner for its future course of action. 6
- Name the form of business organization stated above by quoting line. Explain the features of such business organization.

=====

**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 about 150 words.
- (vi) Answer to the question carrying 6 marks may be about 200 words
- (vii) Attempt all parts of a question together.

1. The economic activity in which specialized knowledge required is: 1
  - (a) Profession
  - (b) Business
  - (c) Employment
  - (d) Both a & c
2. \_\_\_\_\_ is working for purpose of public welfare as a ministry of Govt. and it's all income is deposited in govt treasury. 1
  - (a) Partnership
  - (b) Joint Stock Company
  - (c) HUF
  - (d) Departmental Undertaking
3. It is a form of business organization which is owned, managed, and controlled by an individual who is the recipient of all profits and bearer of all risk. Identify the concept: 1
  - (a) Sole proprietorship
  - (b) Cooperative Society



- (c) Joint Hindu Family business  
(d) Partnership
4. Soaps are included under which type of industry: 1
- (a) Analytical (b) Processing  
(c) Synthetical (d) Assembling
5. A partner whose association with the firm is unknown to the public is called: 1
- (a) Active partner (b) Nominal partner  
(c) Sleeping partner (d) Secret partner
6. Assertion (A): The Central govt of India has established a department that is considered an extension of the ministry itself. 1
- Reason(R): LIC is an example of such a department.
- (a) Both Assertion (A) and Reasoning (R) are true and Reason(R) is the correct explanation of Assertion (A).  
(b) Both Assertion (A) and Reasoning (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.
7. Following are the feature of joint stock company except one. 1
- Find out the exceptional one:
- (a) Formation  
(b) Separate Legal entity  
(c) Artificial person  
(d) Lack of business continuity
8. Assertion (A): Political interference is a demerit of a govt. company. 1
- Reason(R): The operational policies of the govt companies are formed according to the whims and fancies of the ministers.
- (a) Both Assertion (A) and Reasoning (R) are true and Reason(R) is the correct explanation of Assertion (A).

- (b) Both Assertion (A) and Reasoning (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.

9. It is a type of cooperative society which is established to help small producers in selling their product. Identify the type: 1
- (a) Credit Cooperative Society  
 (b) Producers Cooperative Society  
 (c) Consumers Cooperative Society  
 (d) Marketing Cooperative Society
10. Commerce includes: 1
- (a) Trade and aids to trade (b) Business & industry  
 (c) Business and trade (d) Industry and trade
11. In spite of having many demerits people in general are still interested in sole proprietorship business. 3
- Considering the above statement explain benefits of such business.
12. What factors are to be considered while starting a business? 3
- Explain any three of such factors.
13. Identify the following concepts. 4
- (i) Rama is a partner in a business who has no actual interest in business trade or its profits but she is paid fees by the firm for providing her name to the firm.
- (ii) In Ram and Hari Co Ltd Gopal is also a partner but his name is not disclosed to public.
- (iii) Geet is a type of partner who is merely contributing capital, shares profit and loss if any.
- (iv) In Ram and Hari Company, Hari is actively doing all his duty towards the business besides contributing capital, shares unlimited liability and profit and loss.

14. Ruchi is practicing CA in Hyderabad, she has her own firm. 4  
She files in providing Income tax and GST related services to her client with reasonable consultancy fees. Amrut her brother who is also C.A. recently joined a MNC as a financial officer of the company.
- (i) Identify the type of economic activity Ruchi and Amrut are engaged in by quoting line from above paragraph.
- (ii) Write any two points which explain the difference between two economic activities of (i).
15. It is a particular type of organization which brought into 4  
existence by a special act of the parliament.
- (i) Identify the concept stated above.
- (ii) Write down features of the concept of (i)
16. Joint ventures can prove to be extremely beneficial for all the 6  
parties involved in it.  
In light of the above statement explain benefits of Joint venture.
17. Continuous exploitation of milkman the villagers of charm 6  
wood village form a voluntary association to protect their interest, gain access to markets thereby assuring maximum returns for their effort and welfare of the members.
- Name the form of business organization stated above by quoting line. Explain the features of such business organization.

=====

Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_  
CODE-A

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

**Time: 1½ Hrs.**

**Maximum Marks : 40**

**General Instructions :**

- 1) This paper contains 20 Multiple Choice Questions type questions of 1 mark 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 statistics, \_\_\_\_\_ refers to the aggregate of all items or units relating to any subject. 1

**Alternatives:**

- a. Sample
- b. Population
- c. Segment
- d. None of these

2.

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:-

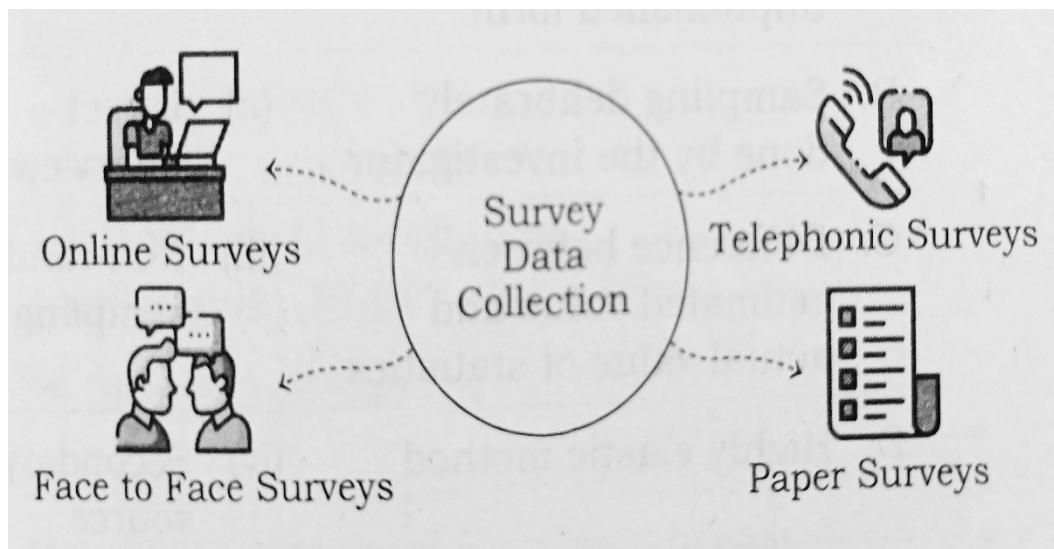
| Column I                              | Column II                |
|---------------------------------------|--------------------------|
| A. Problem of technique of production | 1. What to produce?      |
| B. Factoral distribution of income    | 2. For whom to produce?  |
| C. Unemployment in economy            | 3. Leftward shift in PPC |
| D. Marginal opportunity cost          | 4. Slope of isoquant     |

**Codes**

- a. A-1
- b. B-2
- c. C-3
- d. D-4

3. Which type of data collection method is shown in the image below?

1



- a. First hand data
- b. Second-hand data
- c. Primary data
- d. Both a and b

4. Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:-

1

**Assertion(A)-An original table is that in which data are presented in the same form and manner in which they are collected.**

**Reason(R)- A complex table is one which shows more than one**

**characteristic of the data.**

**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.

5. Read the following statements carefully. 1

**Statement 1: Economic problem is the problem of economizing the resources**

**Statement 2: Scarcity is a situation in which there is an enough of resources to meet all human wants.**

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

6. Identify the correct option. 1

**Mr. Vihaan keeps proper record of statistical information related to the company.** Which of the following source of data is represented in this case?

- a. Internal source of data
- b. External source of data
- c. Primary source of data
- d. Second resource of data

7. If marginal rate of transformation is constant, PPC will be \_\_\_\_ 1

- a. Downward sloping concave
- b. Downward sloping convex
- c. Downward sloping straight line
- d. None of these

8. \_\_\_\_ is only a partial investigation of the population. 1

- a. Census survey
- b. Sample survey
- c. Total survey
- d. None of the above

9. Identify the correct option. 1

Which of the following statements is true when applied to a less than cumulative frequency curve (Ogive)?

- a. Mid points are plotted against cumulative frequencies
- b. Upper class boundaries are plotted against cumulative frequencies
- c. Lower class boundaries are plotted against cumulative frequencies
- d. Mid points are plotted against frequency

10. Read the following statements carefully. 1

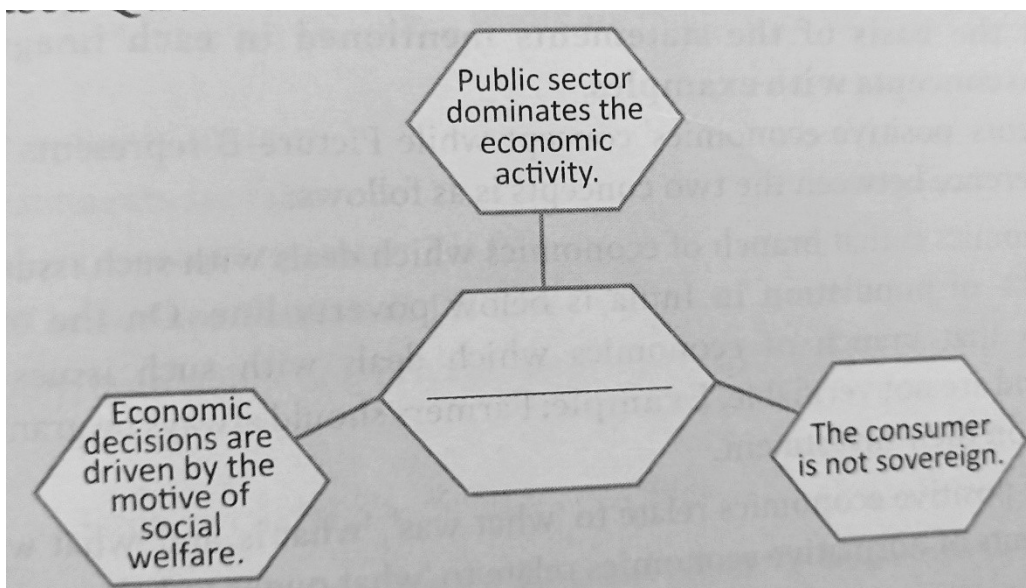
**Statement 1: Data is said to be homogeneous when there are different characteristics present in the universe.**

**Statement 2: Inclusive frequency distribution cannot be used for further mathematical calculation.**

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

11. 1



Choose the correct option:-

On the basis of the above chart answer the following question. Choose the correct alternative to be filled in given blank.

**Alternatives:**

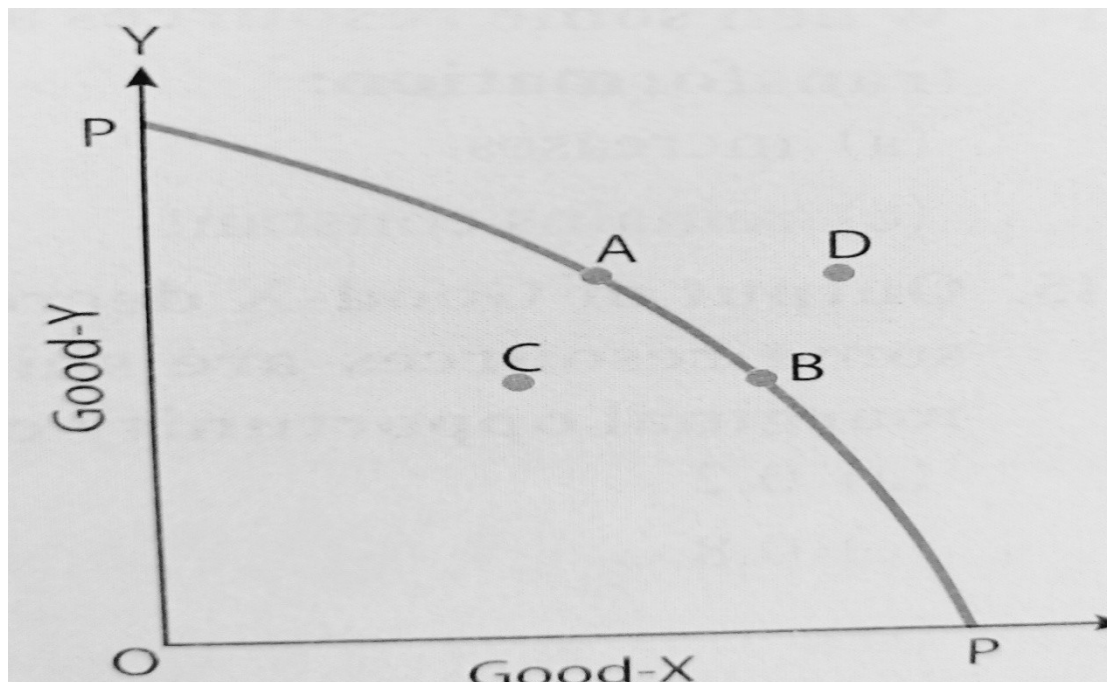
- a. Centrally planned economy
- b. Market economy
- c. Mixed economy
- d. Free economy

12. Statistics involves the following processes:- 1
- A-Presentation of data**  
**B-Organization of data**  
**C-Collection of data**
- Arrange the processes in their correct sequence:  
**Sequence**
- a. A,B,C
  - b. C,B,A
  - c. C,A,B
  - d. A,C,B
13. Which of the following statements is true about the significance of economics? 1
- a. Economics helps in the study of the laws of motion
  - b. Economics helps in the study of man and environment
  - c. Economics helps in solving the problem of distribution
  - d. Economics helps in saving the mankind
14. What is the other name of microeconomics and macroeconomics? 1
- a. Price theory, Income theory
  - b. Price theory, Employment theory
  - c. Cost theory, Income and Employment theory
  - d. Price theory, Income and Employment theory
15. If the data have been collected and processed (scrutinized and tabulated), by some other agency, they are called \_\_\_\_\_ 1
- Alternatives:**
- a.Primary data
  - b. Secondary data
  - c. First hand data
  - d. None of these
16. At macro level the most efficient technique is the one which uses 1
- Alternatives:**
- a. Most quantity of scarceresources
  - b. Least quantity of resources
  - c. Least quantity of scarce resources
  - d. None of the above



17. Values equal to the lower and upper limits of a class are included in the frequency of that same class. This type of class interval is called **Alternatives:** 1
- a. Inclusive class interval
  - b. Exclusive class interval
  - c. Intrusive class interval
  - d. Informal class interval
18. Suppose a student has two hours in which he can only watch a movie or study. What is the opportunity cost of studying? 1
- a. Opportunity cost of studying is not watching a movie
  - b. Opportunity cost of studying is watching a movie
  - c. Opportunity cost of studying is partying with friends
  - d. There is no opportunity cost of studying
19. This method provides the quickest understanding of the actual situation to be explained by data. Name the data. 1
- Alternatives:**
- a. Tabular presentation
  - b. Textual presentation
  - c. Spatial presentation
  - d. Diagrammatic presentation

20. 1



In the diagram alongside, inefficient use of resources is shown by

**Alternatives:**

- a. Points A and B
- b. Point D
- c. Point C
- d. Points C and D

21. Read the following passage and answer the question that follows:

1+1+1+1  
(4)

Census is not only the oldest research, best known, well-formed in terms of methodology, but also research, which is widely regarded as the most reliable data source. As the methods of conducting the census and especially of data collecting have changed incredibly over last decades, it seems appropriately important to address the issue of quality assessment of census. Modern technologies, its development and application in all spheres of social and economic life has also influenced population census methodology. Your changes and modifications can be seen at every stage of the census procedure, and in principle where observed in all countries around the world.

Some countries have opted for fundamental change in methodology that is the source of data, while the other only introduce some innovations in the technology of its collecting and processing. The main idea of these changes is savings, but also improvement of census data quality.

To assess quality of the census different methods may be used. The classification of sources of errors indicates coverage and content errors. In estimation of population size one of the key factors in determining the census is coverage. But considering the change in census methodology, besides non random, also random errors should be discussed. As the census used data from different sources, including, registers, self enumeration, but also sample survey, which were integrated in one database, evaluation should be comprehensive and clear description of estimation technique needs to be provided.

-----Source: [www.reseqrchgate.net/](http://www.reseqrchgate.net/)

A. Read the following statements-Assertion(A) and Reason(R).

1

Choose one of the correct alternatives given below:-

**Assertion(A)-Census is widely regarded as the most reliable data source.**

**Reason(R)- The statistician observes every item personally.**

### Alternatives:

- 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.

1

B. With the incredible change in the conducting of census and data collection, which of the following issue needs to be addressed?

- a. Noting the census
- b. Quality of the census
- c. Quantity of census
- d. Agency conducting the census

1

C. With the change in technologies, which of the following is not true regarding the collection of censuses?

- a. Countries have adopted for fundamental change in methodology in census procedure
- b. Some countries are using the old technologies
- c. Huge changes and modifications are observed
- d. All of the above

1

D. In sample survey, the database integration and evaluation should be \_\_\_\_\_ and clear

- a. Comprehensive
- b. Digital
- c. Precise
- d. None of these

22. “ A normative statement offers suggestions or opinions”. Whether this statement is true or false .Comment. 3
23. “**Massive unemployment shifts the production possibility curve to the left**”. Defend or refute the statement. 3
24. Briefly explain the guidelines for preparing a good table. 4
25. How is production possibility frontier affected when resources are inefficiently employed in an economy? 6

=====

Name: \_\_\_\_\_ Sec: \_\_\_\_\_ Roll No.: \_\_\_\_\_

CODE-B

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

**Time: 1½ Hrs.**

**Maximum Marks : 40**

**General Instructions :**

- 1) This paper contains 20 Multiple Choice Questions type questions of 1 mark each.*
- 2) This paper contains 2 Short Answer Questions type questions of 3 marks each to be answered in 60 to 80 words.*
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- 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. \_\_\_\_\_ is the process through which the total income generated in the country is distributed among the factors of production in the form of rent, wages, interest or profit

1

**Alternatives:**

- a. Production
- b. Consumption
- c. Distribution
- d. Investment

2.

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:-

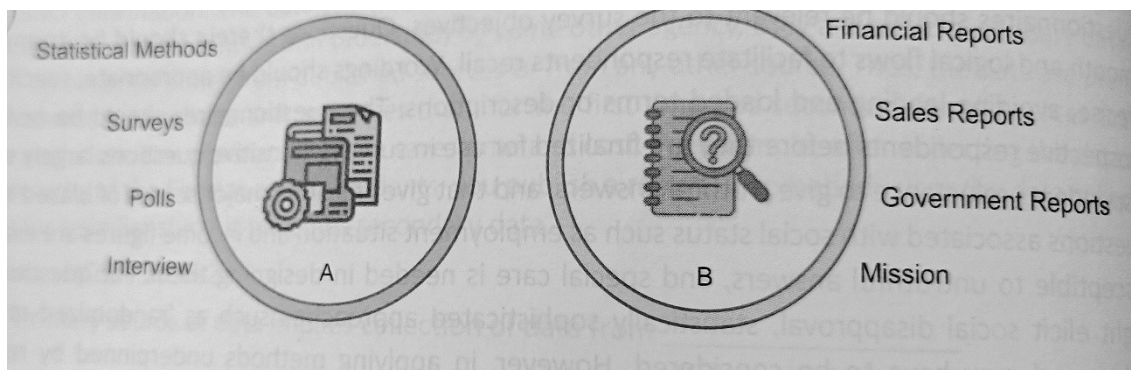
| Column I               | Column II                                                                       |
|------------------------|---------------------------------------------------------------------------------|
| A. Microeconomics      | 1. Deals with the aggregates at the level of the economy as a whole             |
| B. Choice              | 2. Process of selection from available limited alternatives                     |
| C. Positive economics  | 3. Involves value judgment                                                      |
| D. Normative economics | 4. Statements as based on facts and figures related to past, present or future. |

**Codes**

- a. A-1
- b. B-2
- c. C-3
- d. D-4

3. Blanks A&B in the given diagram stand for \_\_\_\_\_

1



- a. Secondary data and primary data
- b. Primary Data and secondary data
- c. Derived data and first hand data
- d. None of these

4. Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:-

1

**Assertion(A)- A table needs to be attractive and simple.**

**Reason(R)- Tables are prepared to make the statistics very lengthy.**

### 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.

5. Read the following statements carefully.

1

**Statement 1: Opportunity cost cannot be included while calculating accounting cost.**

**Statement 2: Outflow of foreign exchange is an indication of inefficient allocation of resources.**

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

6. Which of the following statements is true?

1

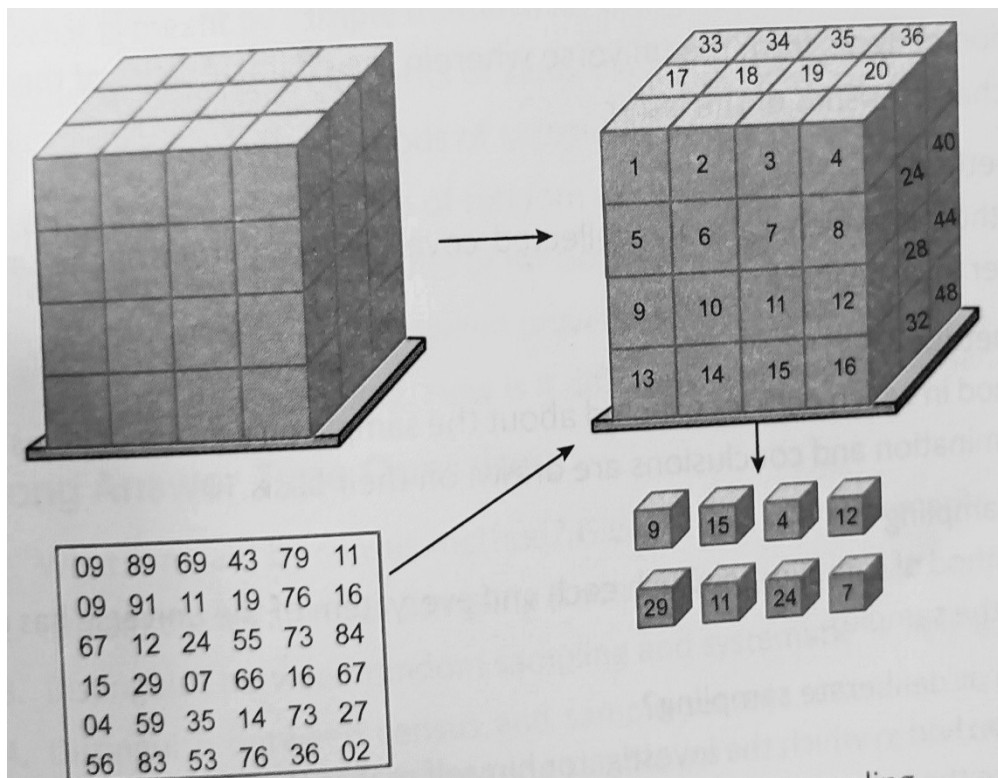
- a. The full form of NSSO is national sample survey organization
- b. The full form of NSSO is notional sample survey organization
- c. The full form of NSSO is nation sample surveying organization
- d. The full form of NSSO is nodal sample survey organization

7. \_\_\_\_\_ are the important tools of macroeconomic studies

1

- a. Demand and supply
- b. Aggregate demand and aggregate supply
- c. Exports and imports
- d. All of the above

8.



1

The diagram highlights \_\_\_\_\_ sampling.

- a. Random
- b. Non random
- c. Dice
- d. Tippet's table

9. The most important advantage of tabulation is that:-

1

- a. It emphasizes certain parts of data
- b. It organizes data for further statistical treatment and decision-making
- c. It removes data that is not necessary
- d. None of the above

10. Read the following statements carefully.

1

**Statement 1: Raw data is incapable of statistical analysis unless organized.**

**Statement 2: An ideal method of classification should be mutually exclusive.**

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



11. Indian economy is a mixed economy because 1  
**Alternatives:**  
a. Agriculture and industry have both simultaneously developed in India  
b. Agriculture and industry have both developed in the public sector  
c. Private ownership and public ownership over means of production co-exist  
d. None of above
12. Arrange the following stages of processing of data in a correct sequence: 1  
A. Coding  
B. Editing  
C. Tabulation  
D. Classification  
E. Using percentages  
Choose the correct answer from the options given below  
**Sequence**  
a. A,B,C,D,E  
b. D,A,B,C,E  
c. C,D,A,B,E  
d. B,A,D,C,E
13. Which of the following is a feature of statistics in terms of numerical data? 1  
a. Interpretation of qualitative data  
b. Aggregate of fact  
c. Mutually related and compatible  
d. Both b and c
14. Given below are a few examples of economics as positive and normative science. 1  
**Choose the corresponding option for each of them. Use (N) for normative and (P) for positive.**  
1. Air is a mixture of gases  
2. Minimum wage law increases unemployment  
3. India should spend more money on defence  
4. Prices have been rising in India.  
a. PPNP b. PNPN  
c. PPPP d. NPNN

15. In \_\_\_\_\_ sampling, every individual has an equal chance of being selected. 1  
**Alternatives:**  
a. Non random sampling  
b. Random sampling  
c. Both of the above  
d. None of the above
16. Which of the following is a limitation of micro economics? 1  
**Alternatives:**  
a. It helps inform you for formulating government policies  
b. Microeconomics fails to explain the functioning of an economy as a whole  
c. It cannot explain unemployment, poverty, illiteracy and other problems prevailing in the country  
d. Both b and c
17. An item equal to either the upper or lower class limit is excluded from the frequency of that class. This type of class intervals is: 1  
**Alternatives:**  
a. Inclusive class interval  
b. Exclusive class interval  
c. Intrusive class interval  
d. Informal class interval
18. **Against some predictions for a second straight year of falling corn and wheat production in war strikes Ukraine, analysts have started to raise over another country .** 1  
The above statement will be considered as  
a. Microeconomics concern  
b. Macroeconomics concern  
c. Both a and b  
d. Neither a nor b
19. In temporal classification data are classified on the basis of 1  
**Alternatives:**  
a. Location  
b. Time  
c. Originality  
d. Purpose

20. When some resources are shifted from use one to use two (Given technology) , the marginal rate of transformation 1  
**Alternatives:**  
a. Increase  
b. Decrease  
c. Remains constant  
d. Is zero

21. Read the following passage and answer the question that follows: 1+1+1+1  
(4)

Suppose, you want to know about the popularity of a film star among school students. For this, you will have to enquire from a large number of school students, by asking questions from them to collect the desired information. The data you receive, is an example of primary data. If the data have been collected and process by some other agency, they are called secondary data. They can be obtained either from published sources or from any other source. Thus, the data are primary to the source that collects and processes them from the first time and secondary for all sources that later use such data. Use of secondary data saves time and cost. For example, after collecting the data on the popularity of the film star among students, you published a report. If somebody uses the data collected by you for a similar study, it becomes secondary data.

*Source:NCERT 2023-24*

- A. Primary source of data implies collection of data from \_\_\_\_\_. 1  
a. It source of origin  
b. Any website  
c. Journals and papers  
d. Both b and c
- B. \_\_\_\_\_ do not offer first and information related to the statistical study under consideration. 1  
a. Primary sources  
b. Secondary sources  
c. Direct sources  
d. Both a and c

C. Which of the following is a method of collecting primary data?

- a. Enumerator's method
- b. Telephonic interviews
- c. Indirect oral investigation
- d. All of these

1

D. Which of the following is a source of secondary data ?

- a. Census report
- b. Journal
- c. Newspaper
- d. All of these

22. Which technology of production would you prefer in rural India, a labour intensive one, which would curtail the problem of unemployment to certain extent or a capital intensive one which is very highly productive in nature?

3

23. With the same amount of resources a farmer can feed the following combinations of goat and cows.

3

| Options | Goats | Cows |
|---------|-------|------|
| I.      | 188   | 64   |
| II.     | 170   | 70   |

With the given options, what is the opportunity cost of the farmer feeding one cow?

24. Draw a flowchart showing different kinds of table. Also explain the various kinds of table.

4

25. How to produce is a complex problem for less developed countries like India?  
Explain how.

6

=====

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**  
**PERIODIC TEST-1 : [2024-2025]**  
**GEOGRAPHY**  
**CLASS-XI**

**Time: 1½ Hours**

**Maximum Marks:40**

**General Instructions:**

1. This question paper contains 26 questions.
2. All questions are compulsory.

- 1 Which of the following statement is **correct**? 1
  - a. Roads can be termed as physical feature.
  - b. Geography attempts spatial synthesis and history attempts temporal synthesis.
  - c. Physical geography is linked with Economic and Sociology.
  - d. Alexander Von Humboldt introduced the approach of regional geography.
- 2 Complete the table with given options. 1

| Column I           | Column II                             |
|--------------------|---------------------------------------|
| Human Geography    | ?                                     |
| Physical Geography | Geomorphology, Climatology, Hydrology |

**OPTIONS**

- a. Economic Geography, Soil Geography, Social Geography
  - b. Social Geography, Population Geography, Plant Geography
  - c. Ecology, Political Geography, Environmental Geography
  - d. Cultural Geography, Settlement Geography, Historical Geography
- 3 Arrange the Eras from earliest to present time 1
  - i. Pre Cambrian
  - ii. Cainozoic
  - iii. Palaeozoic
  - iv. Mesozoic
  - a. iv, iii, ii, i
  - b. i, iii, iv, ii
  - c. i, ii, iii, iv
  - d. iv, i, ii, iii

- 4 There are two statements marked as Assertion(A) and Reason(R). Mark your answer as per the codes provided below. 1

**Assertion (A)-** Mercury, Venus, earth and Mars are called terrestrial planets.

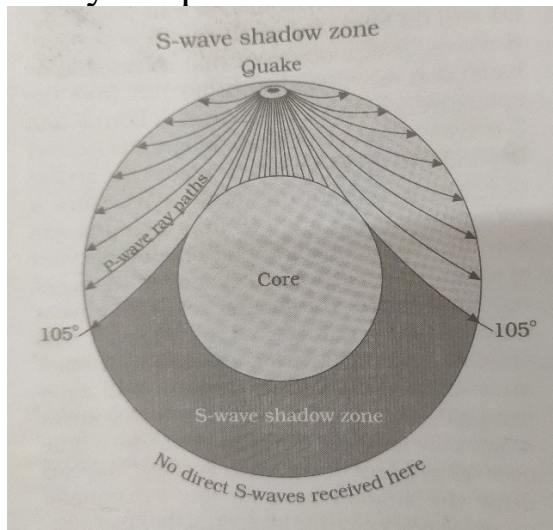
**Reason (R)-** These planets are made up of rocks and metals.

**OPTIONS**

- a) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- b) Both (A) and (R) are true and (R) is the correct explanation of (A)
- c) (A) is incorrect but (R) is correct
- d) (A) is correct but (R) is incorrect
- 5 Which of the following statement is **incorrect**? 1

- a. The point where the energy is released of an earth quake is known as epicentre.
- b. Seismograph records the earthquake waves reaching the surface.
- c. P and S waves are body waves.
- d. P waves are also called primary waves.

- 6 Study the picture and answer the question that follows. 1



Which is the shadow zone for S- waves?

- a.  $105^\circ$  and  $145^\circ$
- b. Beyond  $145^\circ$
- c. Beyond  $105^\circ$
- d.  $100^\circ$  and  $105^\circ$

- 7 **Statement I** – Volcanic eruption is a direct source of information about the interior of the earth. 1  
**Statement II** – It is easy to ascertain the depth of the source of magma.  
**OPTIONS:**  
a. Only statement I is correct.  
b. Only statement II is correct.  
c. Both the statements are correct and statement II correctly explains statement II.  
d. Both the statements are correct but not related with each other.
- 8 Which of the following statement is **correct**? 1  
a. The upper portion of the core is called asthenosphere.  
b. The outer core is solid state while the inner core is in liquid state.  
c. The crust and the mantle are called lithosphere.  
d. Oceanic crust is thinner as compared to the continental crust.
- 9 India stands \_\_\_\_\_ largest country in the world according to its area. 1  
a. First  
b. Second  
c. Fifth  
d. Seventh
- 10 **Assertion (A)**-  $82^{\circ} 30'$  E has been selected as the standard meridian of India. 1  
**Reason (R)**- It is in multiples of  $7^{\circ} 30'$  of longitude.  
**OPTIONS**  
a) Both (A) and (R) are true but (R) is not the correct explanation of (A)  
b) Both (A) and (R) are true and (R) is the correct explanation of (A)  
c) (A) is incorrect but (R) is correct  
d) (A) is correct but (R) is incorrect

- 11 Identify the physiography with given clues. 1
1. It is a narrow belt ranging between 8-10 km
  2. It is parallel to Shiwalik foothills at the break up of the slope
  3. Streams disappear in this zone.
- a. Bhangar
  - b. Khadar
  - c. Bhabar
  - d. Tarai
- 12 **Statement I-** Meghalaya is known as the Molassis basin. 1
- Statement II-** The Barak is an important river in Manipur and Mizoram.
- OPTIONS:**
- a. Only statement I is correct.
  - b. Only statement II is correct.
  - c. Both the statements are correct and statement II correctly explains statement I.
  - d. Both the statements are correct but not related with each other.
- 13 \_\_\_\_\_ separates the Andaman from the Nicobar. 1
- a. Eleven Degree Channel
  - b. Ten Degree Channel
  - c. Palk Strait
  - d. Gulf of Mannar
- 14 Environmental geography is studied under which branch of Geography? 1
- a. Physical Geography
  - b. Human Geography
  - c. Biogeography
  - d. Regional Geography
- 15 The process of formation of soil is known as 1
- a. Pedogenesis
  - b. Pedology
  - c. Pedography
  - d. Cartography
- 16 Which waves are more destructive in nature? 1
- a. P- wave
  - b. S- wave
  - c. Surface wave
  - d. Primary wave



- 17 Which one of the following is not a type of volcano? 1
- Shield Volcanoes
  - Caldera
  - Composite Volcanoes
  - Dykes
- 18 Which of the following latitudinal extent is relevant for the extent of India's area? 1
- 8° 41' N – 35° 7' N
  - 8° 41' N - 37° 6' N
  - 8° 4' N - 35° 6' N
  - 6° 45' N – 37° 6' N
- 19 An island country located in the Indian Ocean which is our neighbour. 1
- Andaman
  - Nicobar
  - Lakshadweep
  - Maldives
- 20 Thick deposits of glacial clay and other materials embedded with moraines is known as 1
- Zaffran
  - Karewas
  - Duns
  - Valleys
- 21 The highest peak of the Western Ghats is 1
- Dodabetta
  - Anaimudi
  - Nilgiri hill
  - Mahendragiri hill
- 22 How is the latitudinal spread of India advantageous to her? 3
- 23 Describe the 'Big Bang Theory'. 5
- 24 Which coastal plains are example of submerged coastal plain? 5
- Mention its characteristic feature.
- 25 **Read the given Passage carefully and answer the questions that follow:** 1x3=3

Geography is an interdisciplinary subject of study. The study of every subject is done according to some approach. The major approaches to study geography have been (i) Systematic and (ii) Regional. The systematic geography approach is the same as that of

general geography. This approach was introduced by Alexander Von Humboldt, a German geographer (1769-1859) while regional geography approach was developed by another German geographer and a contemporary of Humboldt, Karl Ritter (1779-1859). In systematic approach, a phenomenon is studied world over as a whole, and then the identification of typologies or spatial patterns is done. For example, if one is interested in studying natural vegetation, the study will be done at the world level as a first step. The typologies such as equatorial rain forests or softwood conical forests or monsoon forests, etc. will be identified, discussed and delimited. In the regional approach, the world is divided into regions at different hierarchical levels and then all the geographical phenomena in a particular region are studied. These regions may be natural, political or designated region. The phenomena in a region are studied in a holistic manner searching for unity in diversity.

i) In which approach of Geography the world is divided into regions at different hierarchical levels and then all the geographical phenomena in a particular region are studied?

- a. Systematic Approach
- b. Regional Approach
- c. Welfare Approach
- d. Cultural Approach

ii) Name the German Geographer who introduced the systematic approach of Geography.

- a. Karl Ritter
- b. Alexander Von Humboldt
- c. Friedrich Ratzel
- d. Erathostenese

iii) Which one of the following is not a branch of Systematic Approach?

- a. Regional analysis
- b. Physical Geography
- c. Human Geography
- d. Biogeography

- 26 **Read the given Passage carefully and answer the questions that follow:** 1x3=3

### **The Central Highlands**

They are bounded to the west by the Aravali range. The Satpura range is formed by a series of scarped plateaus on the south, generally at an elevation varying between 600-900 m above the mean sea level. This forms the northernmost boundary of the Deccan plateau. It is a classic example of the relict mountains which are highly denuded and form discontinuous ranges. The extension of the Peninsular plateau can be seen as far as Jaisalmer in the West, where it has been covered by the longitudinal sand ridges and crescent-shaped sand dunes called barchans. This region has undergone metamorphic processes in its geological history, which can be corroborated by the presence of metamorphic rocks such as marble, slate, gneiss, etc. The general elevation of the Central Highlands ranges between 700-1,000 m above the mean sea level and it slopes towards the north and northeastern directions. Most of the tributaries of the river Yamuna have their origin in the Vindhyan and Kaimur ranges. Banas is the only significant tributary of the river Chambal that originates from the Aravalli in the west. An eastern extension of the Central Highland is formed by the Rajmahal hills, to the south of which lies a large reserve of mineral resources in the Chotanagpur plateau.

- i) What are three broad groups of Peninsular Plateau?
- Deccan Plateau, Rajmahal Hill, Central Highland
  - Deccan Plateau, Central Highland, Chotanagpur Plateau
  - Chotanagpur Plateau, Rajmahal Hill, North Eastern Plateau
  - Deccan plateau, Central Highland, North Eastern Plateau
- ii) Crescent shaped sand dunes are known as
- Seif
  - Barchans
  - Transverse
  - Parabolic

- iii) Rajmahal hill is an extension of Central Highland from which side?
- a. Southern
  - b. Northern
  - c. Western
  - d. Eastern

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Name : \_\_\_\_\_ Sec : \_\_\_\_\_ Roll No. : \_\_\_\_\_

**CODE-B**

**BURNPUR RIVERSIDE SCHOOL, BURNPUR**

**PERIODIC TEST - I : [2024-25]**

**GEOGRAPHY THEORY**

**CLASS-XI**

**Time: 1½ Hrs.**

**Maximum Marks : 40**

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1. Which one of the following is correct regarding the branches of Physical Geography?
  - a) Geomorphology studies the economic activities of the people.
  - b) Climatology encompasses the study of structure of atmosphere and elements of weather and climate and climatic types and regions
  - c) Hydrology is devoted to the study of landform, their evolution and related processes.
  - d) Soil Geography studies the spatial patterns and geographic characteristics of animals and their habitats.

2. Make correct pairs from the following two columns and mark 1 the correct option :

**COLUMN-I**

I. Meteorology

II. Demography

III. Sociology

IV. Pedology

**COLUMN -II**

A) Population Geography

B) Soil Geography

C) Climatology

D) Social Geography

Options :

a) I – B   II – C   III – A   4 – D

b) I – A   II – D   III – B   4 – C

c) I – D   II – B   III – C   4 – A

d) I – C   II – A   III – D   4 – B

3. Arrange the following stages of the Big Bang Theory in a chronological order sharing the development of the universe and choose the correct option :

(i) Within 300,000 years from the Big Bang, temperature dropped to 4,500 K and gave rise to atomic matter.

(ii) All the matter forming the universe existed in one place in the form of a 'tiny ball' with an unimaginable small volume, infinite temperature and infinite density.

(iii) At the Big Bang the 'tiny ball' exploded, violently leading to a high expansion.

(iv) The universe become transparent.

a) (i) – (iv) – (iii) – (ii)

b) (iv) – (i) – (ii) – (iii)

c)(ii) – (iii) – (i) – (iv)

d)(iii) – (ii) – (iv) – (i)

4. Assertion (A) :The planet earth initially was a barren, rocky and hot object with a thin atmosphere of hydrogen and helium.

Reason (R) :There must have been some events processes which may have caused this change from rocky, barren and hot earth to a beautiful planet with ample amount of water and conducive atmosphere favoring the existence of life.

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. Choose the incorrect statement regarding the types of earthquakes? 1
- a) Tectonic earthquakes are generated due to sliding of rocks along a fault plane.
  - b) Volcanic earthquakes are confined to areas of active volcanoes.
  - c) Explosion earthquakes occur due to the explosion of chemical or nuclear devices.
  - d) Reservoir induced earthquakes occur due to intense mining activity.
6. Study the statements given below and mark out the correct statement. 1
- a) Body waves move in one direction only.
  - b) The velocity of surface waves changes as they travel through materials with different densities.
  - c) S-waves are known as primary waves.
  - d) P-waves move very slow when they try to reach the surface.
7. Select the characteristics of core which are not correct : 1
- a) The core is located at a depth of 2,900 km.
  - b) The inner core is in a liquid state while the outer core is in a solid state.
  - c) The core is made up of very heavy material.
  - d) The core is the outermost layer of the Earth.



8. Which one of the following earthquake waves is more destructive?
- a) P – waves                      b) S – Waves
- c) Surface waves                  d) None of the above
9. Which one of the following latitudinal extent is relevant for the extent of India's area ?
- a)  $81^{\circ}41'N - 35^{\circ}7'N$
- b)  $8^{\circ}4'N - 37^{\circ}6'N$
- c)  $8^{\circ}4'N - 35^{\circ}6'N$
- d)  $6^{\circ}45'N - 37^{\circ}6'N$
10. Assertion (A) : India is located in the South Central part of the continent of Asia bordering the Indian Ocean and its two arms extending in two forms of Bay of Bengal and Arabian Sea.
- Reason (R) : This maritime location of Peninsular India has provided links to its neighboring regions through the sea and air routes.
- 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.



15. Which one of the following branches is devoted to the study of landforms their evolution and related processes ?
- a)Climatology                      b) Hydrology
- c) Geomorphology                      d) Soil Geography
16. Which type of Volcanic eruptions have caused Deccan Trap formation ?
- a) Shieldb) Flood
- c) Composite                      d) Caldera
17. Which one of the following is a direct source of information about the interior of the earth ?
- a) Earthquake waves                      b) Gravitational force
- c) Volcanoes                      d) Earth Magnetism
18. Which one of the following countries is larger in area than India ?
- a) China                      b) Egypt
- c) France                      d) Iran
19. Which one of the following longitude is the Standard Meridian for India.
- a)69°30'E                      b) 75°30'E
- c) 82°30'E                      d) 90°30'E

- Page 8 of 11

25. Read the passage given below and answer the questions that follow : 3

Physical geography includes the study of lithosphere (landforms, drainage, relief and physiography), atmosphere. (its composition, structure, elements and controls of weather and climate; temperature, pressure, winds. precipitation, climatic types, etc.), hydrosphere (oceans, seas, lakes and associated features with water realm) and biosphere (life forms including human being and macro-organism and their sustaining mechanism, viz. food chain, ecological parameters and ecological balance). Soils are formed through the process/ of pedogenesis and depend upon the parent rocks, climate, biological activity and time. Time provides maturity to soils and helps in the development of soil profiles. Each element is important for human beings. Landforms provided the based on which human activities are located.

- (i) What does the study of physical geography include ?
- (ii) How are soils formed ?
- (iii) How does time affect the formation of soil.

26. Read the passage given below and answer the questions that follow : 3

The northern plains are formed by the alluvial deposits brought by the rivers - the Indus, the Ganga and the Brahmaputra. These plains extend approximately 3,200 km from the east to the west. The average width of these plains varies between 150-300 km. The maximum depth of alluvium, deposits, varies between 1.000-2.000 m From the north to the south, these can be divided into three major zones the Bhabar the Tarai and (the alluvial plains) The alluvial plains can be further divided into the Khadar and the Bhangar.

- (i) What led to the formation of the Northern Plains.
- (ii) Name the three major zones of the Northern Plains.
- (iii) What is the extent of the Northern Plains.

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