Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST- 3 : [2025 – 2026]
ENGLISH CORE
CLASS : XI

Time: 1 ½ Hrs. **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.*

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1. Read the paragraph given below. Fill each blank with an appropriate word. **1x4**

While planning your career, it (a) ……. very important that you understand yourself. You (b) ……. to evaluate and recognise your abilities. You must make sure (c) ……. your interest and aptitude (d) ……. suitable for the career you wish to pursue.

2. Read the conversation given below and complete the paragraph that follows: **1x4**

Santa: How did your hen die?
Banta: I poured hot water into its mouth.
Santa: But why did you do it?
Banta: Actually, I thought it would give me boiled eggs.

Santa asked Banta (a) ……... Banta replied that (b) ……... Now Santa wanted to know why (c)…… . To which Banta replied that (d) …….…….

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

Yet have I killed
The seed I spent or sown it where
The land is his and none of mine?
We speak like strangers, there's no sign
Of understanding in the air.
This child is built to my design
Yet what he loves I cannot share.

(*Father to Son*)

i. "This child is built to my design" means that

a. they share their likes and dislikes
b. they share an unbreakable bond

c. they resemble each other

d. their opinions are the same

ii. What is the rhyme scheme of the given lines?

a. abccbcb
b. abcabca

c. ababacc

d. No rhyme

iii. Identify the lines from the extract that indicate distance between father and son.

iv Name the poet.

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

A FLAWLESS half-moon floated in a perfect blue sky on the morning we said our goodbyes. Extended banks of cloud like long French loaves

glowed pink as the sun emerged to splash the distant mountain tops with a rose-tinted blush. Now that we were leaving Ravu, Lhamo said she wanted to give me a farewell present. One evening I'd told her through Daniel that I was heading towards Mount Kailash to complete the kora, and she'd said that I ought to get some warmer clothes.

(*Silk Road*)

i. Which of the following figure of speech has been used in the line 'banks of cloud like long French loaves'

   a. simile
   b. metaphor
   c. oxymoron
   d. alliteration

ii. Which of the following facts can be inferred from the above extract?

   a. Lhamo didn't try to understand the author
   b. Daniel was the translator of the author
   c. Sun and Moon were both visible in the sky
   d. Both (b) and (c)

iii. What is kora?

iv. What did Lhamo give to the protagonist as a farewell gift?

4. Answer the following questions given below in 40-50 words each. 2x3

A. What did Professor Gaitonde take with him absent mindedly from the library? How did it help him?

(*The Adventure*)

B. How has archaeology changed its focus?

(*Discovering Tut: The Saga Continues*)

C. Why did Andrew decide to wait at Joe Morgan's house?

(*Birth*)

5. Answer <u>ANY TWO</u> out of the three questions given below in 120-150 words each. **5x2**

A. What sort of father-son relationship has been depicted in the poem 'Father to Son'

B. Narrate the narrator's meeting with the Tibetan doctor.

(*Silk Road*)

C. What dilemma was Andrew caught in? How did he resolve it?

(*Birth*)

6. You are Harshita / Harish of 92, Shakespeare Sarani, Kolkata. You want to sell your flat as you are shifting to another city for work. Draft a suitable advertisement in not more than 50 words to be published in 'The Times of India' under the classified columns. **3**

7. 'Homes for the aged is a necessity in India.' Write a debate in 120-150 words either for or against the motion. **5**

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Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST – 3 : (2025-26)

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. **Fill in the following blanks using one word only:** 1X 4

In the heart (a) _____ the old city stood an ancient library that had survived centuries. Its tall shelves (b) _____ filled with manuscripts, old books, and scrolls written (c) _____ different languages. Among the books, there were detailed maps of old kingdoms, letters from famous poets, and notebooks of inventors (d) _____ lived long ago.

2. **Read the instructions given below and complete the paragraph that follows:** 1X 4

Master: How are you feeling now?
Worker: I am feeling better but I am not completely fine.
Master: Do you need more rest?
Worker: It is okay. I will report tomorrow

The Master asked his worker (a) _____. The worker replied that (b) _____. The master further asked him (c) _____. The worker replied that that was okay and (d) _____.

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

(A) *Silence surrounds us. I would have*
Him prodigal, returning to
His father's house, the home he knew,
Rather than see him make and move
His world

(a) The word '*silence*' signifies -

a) Silent surroundings
b) Miscommunication
c) Lack of any communication
d) Busy in their individual lives

(b) *I would have / Him prodigal.* The figure of speech used is –

a) Simile
b) Allusion
c) Synecdoche
d) Alliteration

(c) Explain: *I would have / Him prodigal.*

(d) What is the father's lament?

(B) *These beasts would cock their great big heads when they became aware of our approach and fix us in their sights. As we continued to draw closer, they would* 1X 4

explode into action, speeding directly towards us, like a bullet from a gun and nearly as fast. (*Silk Road*)

(a) What beast is the narrator talking about?

a) The Himalayan dogs
b) the big foot
c) the Tibetan mastiffs
d) the huge yaks

(b) "…*like a bullet from a gun and nearly as fast.*" is an example of –

a) Metaphor
b) Metonymy
c) Simile
d) Paradox

(c) Where did the narrator come across the '*beasts*'?

(d) Explain - ... *they would explode into action.*

4. **Attempt the following questions in 40-50 words each.** 2 X 3

(a) "*I have conveyed my regrets to the organisers of the Panipat seminar.*" Why do you think Prof. Gaitonde decided never to preside over meetings again?

(b) *Usually so perceptive, Andrew now felt dull and listless.* What left Andrew feel without energy?

(c) *Which evidence proves the burial of King Tut in March or April?*

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

words:

(a) How does the poem, *"Father to Son"* depict the communication gap between the father and son?

(b) *Meeting Norbu came as an immense relief to the narrator.* Why? (*Silk Road*)

(c) *He hesitated, torn between his desire to attempt to resuscitate the child, and his obligation towards the mother, who was herself in a desperate state.* How did Dr. Andrew manage to finally overcome the dilemma?

6. Draft a **classified advertisement**, in not more than 50 words, to be published in The Telegraph for the sale of your 2-Bedroom apartment located at Palm Heights giving all the necessary details. You can be contacted at 9978665432. 3

7. You are Gourav / Garima, Head Boy / Head Girl of your school. You have been selected to represent your school in an Inter School **Debate** competition on the motion *'Online smart classes aren't smarter enough to replace the human classroom teacher'* Draft the text of the debate either in favour of or against the motion in 120 – 150 words. 5

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Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST-3:(2025-2026)

PHYSICS

CLASS : XI

Time: 1 ½ Hrs. **Maximum Marks:40**

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General Instructions:

(i) This question paper consists of 17 questions.

(ii) All questions are compulsory.

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SECTION-A

1. A cube is subjected to a uniform volume compression. If the side of the cube decreases by 2% the bulk strain is: 1

   (a) 0.02 (b) 0.03 (c) 0.04 (d) 0.06

2. A vessel contains oil (density 0.8 g/cc) over mercury (density 13.6 g/cc). A homogeneous sphere floats with half of its volume immersed in mercury and other half in oil. The density of the material (in g/cc) is 1

   (a) 3.3 (b) 6.4 (c) 7.2 (d) 2.8

3. 50g of ice at 0^0 C is mixed with 50g of water at 80^0 C, final temperature of the mixture will be 1

   (a) 0^0 C (b) 40^0 C (c) 60^0 C (d) 4^0 C

   (given the Latent heat of fusion of ice is 80cal/g and specific of water is 1 cal $g^{-1}\ {}^0C^{-1}$)

4. A monoatomic gas at a pressure P, having a volume V expands isothermally to a volume 2V and then adiabatically to a volume 16V. The final pressure of the gas is ($\gamma = \frac{5}{3}$) 1

   (a) 64P (b) 32P (c) P/64 (d) 16P

5. If one mole of monoatomic gas ($\gamma = \frac{5}{3}$) is mixed with one mole of diatomic gas ($\gamma = \frac{7}{5}$) the γ of the mixture is 1

   (a) 1.35 (b) 1.40 (c) 1.50 (d) 1.75

SECTION-B

6. Using the law of equipartition of energy, obtain a relationship between the degree of freedom f and specific heat ratio γ of a polyatomic gas. 2

7. 5 moles of oxygen are heated at constant volume from 10^0 2

C to 20^0 C. What will be the change in the internal energy of the gas? The gram molecular specific heat of oxygen at constant pressure Cp = 8cal mol^{-1} $^0C^{-1}$ and R = 8.36J mol^{-1} $^0C^{-1}$.

8. One end of a copper rod of uniform cross section and of length 1.5m is kept in contact with ice and other end with water at 100^0 C. At what point along the length should a temperature of 200^0 C be maintained so that in steady state the mass of the ice melted be equal to that of steam produced in the same interval of time. Assume that the whole system is insulated from its surroundings. Latent heat of fusion of ice is 80 cal/g and latent heat of vaporization of water is 540 cal/g. 2

9. A copper wire of negligible mass, 1 m length and 10^{-6} m cross sectional area is kept on a smooth horizontal table with one end fixed. A ball of mass 1 kg is attached to the other end. The wire and the ball is rotating with an angular velocity of 20 rad/sec. If the elongation in the wire is 10^{-3} m, obtain the Young's modulus. If on increasing the angular velocity to 100rad/sec the wire breakdown, obtain the breaking stress. 2

10. Derive an expression for the excess pressure inside a liquid drop. 2

SECTION-C

11. Derive an expression for the rise of liquid in a capillary tube. 3

12. A metallic sphere of radius $1x10^{-3}$ m and density $1x10^4$ kg/m^3 enters a tank of water, after a free fall through a distance h in the earth's gravitational field. If its velocity remains unchanged after entering the water, determine the value of h. Given the coefficient of viscosity of water = $1x10^{-3}$ Nsm^{-2}, g=10m/s^2 and density of water = 1000kg/m^3. 3

13. Steam at 100^0C is passed into copper cylinder 10 mm thick and 200 cm^2 area. Water at 100^0C collects at the rate of 150 gram/minute. Find the temperature of the outer surface if the conductivity of copper is 0.8 $cals^{-1}cm^{-1}$ $^0C^{-1}$ and latent heat of seam is 540cal/g. 3

14. A sample of gas (γ=1.5) is compressed adiabatically from volume of 1600cm^3 to 400cm^3. If the initial pressure is 150 3

kPa what is the final pressure and how much work is done on the gas in this process?

15. On the basis of kinetic theory derive an expression for the pressure exerted by an ideal gas. 3

SECTION-D

16. (i) Show that the slope of an adiabatic curve at any point is γ times the slope of an isothermal curve at the corresponding point. 5

(ii) Derive an expression for the work done during the adiabatic expansion of an ideal gas.

17. Water stands at a height H in a tank whose side walls are vertical. A hole is made in one of the walls at a depth h below the water surface. 5

(i) Find at what distance from the foot of the wall does the emerging stream of water strike the floor.

(ii) For what value of h this range is maximum?

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Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST-3:(2025-2026)

PHYSICS

CLASS : XI

Time: 1 ½ Hrs. Maximum Marks:40

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General Instructions:

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

(ii) **All questions are compulsory.**

==========

SECTION-A

1. If the average depth of the ocean is 4000m and Bulk modulus is $2x10^9$ N/m^2, then the fractional change in volume of water at the depth of ocean is $\propto$ $x10^{-2}$. Then the numerical value of $\propto$ is ……
(given g=10m/s^2 and density of water is 1000kg/m^3) 1

(a)6 (b)3 (c)4 (d) 2

2. A container of large surface area is filled with liquid of density ρ. A cubical block of edge length a and mass M is floating in it with 4/5 of its total volume submerged. If a coin of mass m is placed on the top of the cubical block it is just submerged. Then M is 1

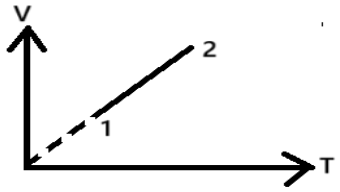
(a)4m/5 (b)m/5 (c)4m (d)5m

3. 10 gms of ice at 0^0 C is mixed with M gms of water at 50^0 C. Then minimum value of M to melt the ice completely is? 1

(a) 32 gms (b)20gms (c)40gms (d)16gms

(given the Latent heat of fusion of ice is 80cal/g and specific of water is 1 cal g^{-1} ^{0}C^{-1})

4. 1



Volume Vs temperature graph of two moles helium gas is given in the above figure. Then the ratio of heat absorbed and work done by the gas in the above process is :

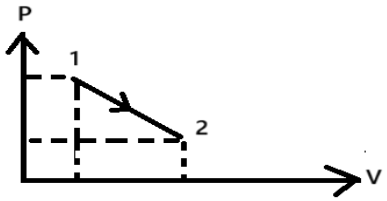
(a) 1 (b) 3/2 (c) 5/3 (d) 5/2

5. If one mole of monoatomic gas ($\gamma = \frac{5}{3}$) is mixed with one mole of diatomic gas ($\gamma = \frac{7}{5}$) the γ of the mixture is: 1

(a)1.35 (b) 1.40 (c) 1.50 (d) 1.75

SECTION-B

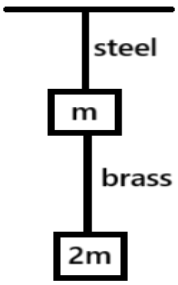
6. Using the law of equipartition of energy, obtain a relationship between the degree of freedom f and specific heat ratio γ of a polyatomic gas. 2

7. 

2

Process 1 to 2 is done on a monoatomic gas as shown in the above P Vs V diagram. Given $P_1=2P_2=10^6\,N/m^2$, $V_2=4V_1=0.4m^3$. Then find heat absorbed by the gas in the above process from 1 to 2.

8. One end of a copper rod of uniform cross section and of length 1.5m is kept in contact with ice and other end with water at 100^0 C. At what point along the length should a temperature of 200^0 C be maintained so that in steady state the mass of the ice melted be equal to that of steam produced in the same interval of time. Assume that the whole system is insulated from its surroundings. Latent heat of fusion of ice is 80 cal/g and latent heat of vaporization of water is 540 cal/g. 2

9. 

2

If the ratio of lengths, radii and Young's modulus of brass and steel wire in the above figure are a, b and respectively. Then prove that the corresponding ratio of increase of their length is $\mathbf{3a/2b^2c}$

10. Derive an expression for the excess pressure inside a soap drop. 2

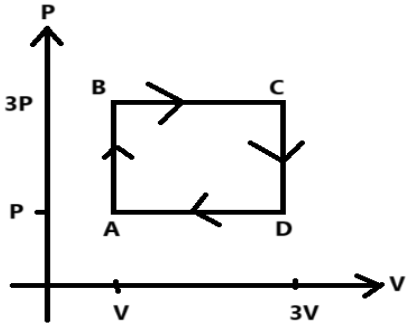
SECTION-C

11. Derive an expression for the rise of liquid in a capillary tube. 3

12. A horizontal pipeline carries water in stream line flow. At a point along the tube where cross-sectional area is 10^{-2} $m^{2,}$ water velocity is 2m/s and pressure is 8000Pa.Find the pressure of water a point where cross sectional area is $0.5m^2$. 3

13. Steam at 100^0C is passed into copper cylinder 10 mm thick and 200 cm^2 area. Water at 100^0C collects at the rate of 150 gram/minute. Find the temperature of the outer surface if the conductivity of copper is 0.8 $cals^{-1}cm^{-1}$ $^0C^{-1}$ and latent heat of seam is 540cal/g. 3

14. A sample of gas (γ=1.5) is compressed adiabatically from volume of $1600cm^3$ to $400cm^3$. If the initial pressure is 150 kPa what is the final pressure and how much work is done on the gas in this process? 3

15. 

3

A mono atomic gas is taken through a cyclic process as shown in the figure. Find efficiency of the cycle.

SECTION-D

16. (i) Show that the slope of an adiabatic curve on a Pressure Vs Volume diagram at any point is γ times the slope of an isothermal curve at the corresponding point. 5

(ii) Derive an expression for the work done during the isothermal expansion of an ideal gas.

17. Water stands at a height **H** in a tank placed on the ground whose side walls are vertical. A hole is made in one of the walls at a height of **h** above the bottom of the tank. 5

(i) Find at what distance from the foot of the wall does the emerging stream of water strike the floor.

(ii) For what value of **h** this range is maximum? Also find the maximum range.

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Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST- 3 : [2025 – 2026]

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 objective type 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 marks each with sub-parts.
vii. Section - E consist of 01 LA - type question of 5 marks.

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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. A liquid is in equilibrium with its vapour at its boiling point. On the average, the molecules in the two phases have equal: 1

(a) Intermolecular forces

(b) Potential energy

(c) Kinetic energy

(d) None of the above

2. Product obtained by the electrolysis of molten NaCl: 1

(a) NaOH
(b) NaOCl
(c) Na, Cl_2
(d) $NaClO_3$

3. Cl_2 does not react with methane in dark because – 1

(a) Cl_2 is less reactive

(b) CH_4 is less reactive

(c) free radicals are not formed

(d) C–H bond does not break up

4. Oxidation number of S in $H_2S_2O_7$ is- 1

(a) +2

(b) +5

(c) +6

(d) +1

5. Highest B.P is of 1

(a) n-Hexane

(b) n-Pentane

(c) 2-methyl butane

(d) 2,2-Dimethyl propane

6. Conjugate acid and conjugate base of OH^- respectively are 1

(a) H_2O & O^{2-}

(b) H_2O & H_2O^+

(c) H_2O & O^-

(d) H_2O & OH

7. Oxidation number of oxygen in OF_2 and H_2O_2 respectively is 1

(a) −2, −1

(b) +2, −1

(c) +2, +1

(d) −2, +1

8. If concentration of OH^- ions in the reaction, 1
$Fe(OH)_3\ (s) \rightleftharpoons Fe^{3+}\ (aq) + 3OH^-\ (aq)$
is decreased by 1/4 times, then equilibrium concentration of Fe^{3+} will increase by

(a) 8 times

(b) 16 times

(c) 64 times

(d) 4 times

9. Reaction of which halogen with alkanes is reversible? 1

(a) F_2

(b) Cl_2

(c) Br_2

(d) I_2

Question No. 10, 11 and 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):** RNH_2 is a lewis base. 1
Reason(R): It is electron pair acceptor.

11. **Assertion(A):** In S_8 valency of S is 2. 1
Reason(R): Oxidation number of S in it is 0.

12. **Assertion(A):** Rotation about carbon-carbon single bond in ethane is almost free for all practical purposes. 1
Reason(R): At ordinary temperature, the ethane molecule gains thermal or kinetic energy sufficient enough to overcome the energy barrier of 12.5 kJ mol^{-1} through intermolecular collisions.

SECTION-B

2

13. N/20 solution of a monobasic acid is 3.5% dissociated at a given temperature. Calculate the Ionisation Constant (Ka) of the acid.

14. Which of the following species do not show disproportionation reaction and why? (2) 2

ClO^-, ClO_2^-, ClO_3^- and ClO_4^-

15. Write IUPAC names of the following compounds: 2

(a) $(CH_3)_2\ C\ (C_2H_5)_2$

(b) tetra-tert-butyl methane

16. Describe the effect of- 2

(a) addition of H_2

(b) removal of CO on the equilibrium of the reaction:
$2H_2\ (g) + CO\ (g) \rightleftharpoons CH_3OH\ (g)$

17. How will you convert ethane into propane? 2

SECTION-C

18. Balance the following redox reactions by ion-electron method : 3
$I_2 + OH^- \rightarrow I^- + IO_3^- + H_2O$ (in basic medium).

19. (a) K_{sp} of AgCl is 4.7×10^{-10}. Now 20 ml of 2×10^{-6} M $AgNO_3$ and 20 ml of 2×10^{-5} M NaCl are mixed together. Will AgCl precipitate out? 3

(b) Write the relation used to calculate the pH of an acidic buffer?

20. (a) In the chlorination of ethane, some butane and ethene is also formed. Explain. 3

(b) Wurtz reaction is used only for the preparation of symmetrical Alkanes. Why?

SECTION-D

21. Equilibrium in a system having more than one phase is called heterogeneous equilibrium. The equilibrium between water vapour and liquid water in a closed container is an example of heterogeneous equilibrium. Heterogeneous equilibrium often involves pure solids or liquids. 4

(a) What does the equilibrium constant K < 1 shows?

(b) What is the relation between K_p and K_c for the following equilibrium reaction?
$NH_4HS\ (s) \rightleftharpoons NH_3\ (g) + H_2S\ (g)$

(c) The value of K_c for the reaction $2A \rightleftharpoons B + C$ is 2×10^{-3}. At a given time, the composition of reaction mixture [A] = [B] = [C] = 3×10^{-4} M. In which direction the reaction will proceed?

OR

One mole of acetic acid and one mole of ethyl alcohol are made to react in a 0.5 litre vessel. At equilibrium, 2/3 moles of ester are formed. Calculate the equilibrium constant for the reaction,

$$CH_3COOH + C_2H_5OH \leftrightarrows CH_3COOC_2H_5 + H_2O$$

22. **Section – E** 5

Depict the galvanic cell in which the reaction:
$Zn\ (s) + 2Ag^+\ (aq) \rightarrow Zn^{2+}\ (aq) + 2Ag\ (s)$
takes place. Further show,

(a) Which of the electrode is negatively charged?

(b) The carriers of current in the cell.

(c) Individual reaction at each electrode.

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Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST- 3 : [2025 – 2026]

CHEMISTRY

CLASS XI

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

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General instructions:-

- *There are 22 questions in this question paper. All questions are compulsory.*
- *SECTION-A, Q.No-1 to 12 consists of multiple choice questions and Assertion/Reason type questions carrying 1 mark each.*
- *SECTION-B, Q.No-13 to 17 consists of very short answer questions carrying 2 marks each.*
- *SECTION-C, Q.No-18 to 20 consists of short answer questions carrying 3 marks each.*
- *SECTION-D, Q.No-21 consists of case based question carrying 4 marks.*
- *SECTION-E, Q.NO-22 consists of long answer type question carrying 5 marks.*
- *Use of calculators is not allowed.*

==========

SECTION-A

1 pH of an aqueous solution is 4. Its pH is made 5. Molar concentration of H_3O^+ : 1

a) Decreases 2 times
b) Increases 4 times
c) Increases 10 times
d) Decreases 10 times

2 Reduction potentials of 4 metals A, B, C and D respectively are +0.40V, -0.50V, +0.14V and -1.36V. The decreasing order of reactivity of metals is : 1

a) A > C > B > D
b) A > B > C > D
c) D > B > C > A
d) B > A > D > C

3 Photochemical chlorination of alkane is initiated by a process of : 1

a) Homolysis
b) Pyrolysis
c) Substitution
d) heterolysis

4 Which is used in salt bridge : 1

a) KCl b) KBr c) $AgNO_3$ d) $CuSO_4$

5 Isopropyl bromide on Wurtz reaction gives 1

a) Hexane
b) Propane
c) 2,3-Dimethylbutane
d) Neohexane

6 For the gaseous reaction $N_2 + 3H_2 \dashrightarrow 2NH_3$ 1

a) $K_P = K_C(RT)^{-2}$
b) $K_P = K_C(RT)^{2}$
c) $K_P = K_C$
d) $K_P = K_C(RT)^{-1}$

7 Oxidation number and valency of sulphur respectively in S_8 1

a) 0, 2 b) 2, 2 c) 0, 8 d) 2, 8

8 Solubility of a saturated solution of a sparingly soluble salt AB_2 is x mol/L. K_{SP} of AB_2 is : 1

a) $3x^3$ b) $2x^3$ c) $4x^3$ d) $4x^2$

9 Liquid hydrocarbons can be converted into a mixture of gaseous hydrocarbons by 1

a) Oxidation
b) Cracking
c) Distillation under reduced pressure
d) Hydrolysis.

In the following questions, two statements are given - one labelled

Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:
a) Both A and R are true and R is the correct explanation of A.
b) Both A and R are true, but R is not the correct explanation of A.
c) A is true but R is false.
d) A is false but R is true.

10 **Assertion:** A catalyst does not have any effect on equilibrium state. 1
Reason: In the presence of catalyst, the equilibrium is attained quickly.

11 **Assertion:** In Zn/Cu cell, the redox couples are Zn^{2+}/Zn and Cu^{2+}/Cu. 1
Reason: A redox couple comprises of the oxidized and reduced form of a substance taking part in an oxidation or reduction half cell.

12 **Assertion:** All the hydrogen atoms in neo-pentane are 1° H atoms. 1
Reason: Neo-pentane is an isomer of 2-Methylbutane.

SECTION-B

13 A sample of HI(g) is placed in flask at a pressure of 0.2 atm. At equilibrium, the partial pressure of HI(g) is 0.04 atm. What is K_P for the given equilibrium ? 2
$2HI(g) \dashrightarrow H_2(g) + I_2(g)$

14 The compound AgF_2 is unstable compound. However, if formed, the compounds acts as a very strong oxidizing agent. Why ? 2

15 Sodium salt of which acid will be needed for the preparation of propane? Write chemical equation for the reaction. 2

16 Justify that the following reactions are redox reactions : 2

a) $4BCl_3 + 3LiAlH_4 \dashrightarrow 2B_2H_6 + 3LiCl + 3AlCl_3$
b) $4NH_3 + 5O_2 \dashrightarrow 4NO + 6H_2O$

17 Why is Wurtz reaction not preferred for the preparation of alkanes containing odd number of carbon atoms? Illustrate your answer by taking one example. 2

SECTION-C

18 Calculate the oxidation number of the underlined elements in each of the following species. 3

a) $NaH_2\underline{P}O_4$ b) $Na\underline{B}H_4$ c) $H_2\underline{S}O_5$

19 Dihydrogen gas is obtained from natural gas by partial oxidation with steam as per following endothermic reaction, 3

$CH_4(g) + H_2O(g) \rightarrow CO(g) + 3H_2(g)$

How will the values of K_P and composition of equilibrium mixture be affected by

a) increasing the pressure

b) increasing the temperature

c) using a catalyst.

20 Draw the Newman projection for the eclipsed and staggered conformation of ethane. Which of these conformations is more stable and why? 3

SECTION-D

21 **Read the passage given below and answer the following questions:-** 4

The Haber process for the synthesis of ammonia from molecular hydrogen and nitrogen is represented by the following thermochemical equation:

$N_2(g) + 3H_2(g) \rightarrow 2NH_3(g) + 92.6$ KJ/mol

The reaction is carried out in the presence of a heterogeneous catalyst containing iron. The value of K_C for the reaction is 1.2 at 375˚ C.

a) Write the equilibrium constant expression for the reaction taking place during Haber's process.

b) How does the value of K_C for this reaction change with increase in temperature?

c) Find the unit of K_P and K_C for this reaction.

OR

c) Starting with 2 mol of each (N_2, H_2 and NH_3) in 5 L reaction vessel at 375˚C. Predict the direction of the net reaction?

SECTION-E

22 a) What do you understand by disproportionation reactions? Explain with example. 5

b) Balance the following redox reaction by ion-electron method.

$H_2O_2 + Fe^{2+} \dashrightarrow Fe^{3+} + H_2O$ (in acidic solution)

==========

Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST- 3 : [2025 – 2026]
MATHEMATICS
CLASS: XI

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

==========

***General Instructions*:**

This question paper contains five sections A, B, C, D and E. Each section is compulsory.

***Section–A*:**

It comprises of 11 MCQs of 1 mark each.

***Section –B*:**

It comprises of 3 questions of 2 marks each.

***Section–C*:**

It comprises of 3 SA type of questions of 3 marks each.

***Section –D*:**

***I**t comprises of 2 SA type of questions of 5 marks each.*

***Section–E*:**

It has 1 CBQ type question of 4 marks.

Internal choice is provided in 1 question in Section - B, 1 question in Section – C and 1 question in Section-D. You have to attempt only one of the alternatives in all such questions.

==========

SECTION –A

1. Find the Slope of a line if inclination made by the line is 120°. 1

   a) $\frac{1}{2}$ b) $-\sqrt{3}$ c) $\frac{1}{\sqrt{3}}$ d) 1

2. The radius of the circle $x^2+y^2-4x+6y-5=0$ is 1

   a) $3\sqrt{2}$ b) $2\sqrt{2}$ c) $\sqrt{5}$ d) 5

3. The co-ordinate of the focus of the parabola $3y^2 = 8x$ is 1

   a) $(\frac{2}{3},0)$ b) $\left(0,\frac{2}{3}\right)$ c)$(\frac{-3}{2},0)$ d) $\left(0,\frac{-3}{2}\right)$

4. For the ellipse $16x^2 + 25y^2 = 400$, the length of the latus rectum is 1

   a) $\frac{32}{5}$ b) $\frac{3}{5}$ c) 10 d) 8

5. The eccentricity of hyperbola is 1

a) $e > 1$ b) $e = 1$ c) $e < 1$ d) $0 < e < 1$

6. The distance between the points (1,-1,3) and (2,3,-5) is 1

a) 9 units b) 4 units c) 8 units d) 5 units

7. The arithmetic mean (A.M) between 15 and -7 is 1

a) 4 b) 16 c) 64 d) 17

8. Find the 10^{th} term of the progression $\frac{1}{4}$, $\frac{-1}{2}$, 1 , -2 , 4, …… 1

a) -128 b) $\frac{-1}{128}$ c)100 d) $\frac{1}{100}$

9. The middle term in the expansion of $\left(\frac{x}{a}-\frac{a}{x}\right)^{100}$ is 1

a) -252 b) -248 c) 252 d) 248

Each question consists of two statements, namely, Assertion (A) and Reason (R). for selecting the correct answer, use the following code:

a) Both assertion (A) and Reason(R) are true and Reason (R) is a correct explanation of Assertion (A).
b) Both assertion (A) and Reason(R) are true but Reason (R) is not a correct explanation of Assertion (A).
c) Assertion (A) is true and Reason(R) is false.
d) Assertion (A) is false and Reason (R) is true.

10. Assertion : Vertices of a triangle are A (1,2,-1), B(3,2,1) and C (-4, 0, 2). Its side BC has length $3\sqrt{6}$. 1

Reason : distance between the point $P(x_1, y_1, z_1)$ and $Q(x_2, y_2, z_2)$ is $\sqrt{(x_2-x_1)^2+(y_2-y_1)^2+(z_2-z_1)^2}$

11. Assertion : the arithmetic mean (A.M) between two numbers is 34 and their Geometric mean is 16. The numbers are 4 and 64. 1

Reason : For two numbers a and b, A.M = $\frac{a+b}{2}$ and G.M = $\sqrt{ab}$

SECTION- B

12. Find the equation of the ellipse whose foci are (0, ±6) and the length of whose minor axis is 16. 2

13. Find the equation of the hyperbola whose foci are (0, ±6) and the length of whose conjugate axis is $2\sqrt{11}$. 2

OR

Find the equation of the hyperbola whose foci are (0,±12) and the length of whose latus rectum is 36.

14. Prove that the points A(3,-2,4), B(1,1,1) and C(-1,4,-2) are collinear. 2

SECTION - C

15. The area of the triangle formed by the co-ordinate axes and a line is 6 sq. units and the length of its hypotenuse is 5 units. Find the equation of the line. 3

OR

Find the equations of the lines through the point (3,2), which makes an angle of 45° with the line $x - 2y = 3$

16. Find the equation of the parabola with vertex at the origin, the axis along the x-axis and passing through the point (2,3). Also find the equation of the directrix. 3

17. If a, b, c are in AP, show that 3

$a\left(\frac{1}{b}+\frac{1}{c}\right)$, $b\left(\frac{1}{c}+\frac{1}{a}\right)$, $c\left(\frac{1}{a}+\frac{1}{b}\right)$ are in AP.

SECTION- D

18. Find the equation of a circle concentric with the circle 5

$2x^2 + 2y^2 - 6x + 8y + 1 = 0$

and double of its area.

19. Find the ratio of the coefficient of x^{15} to the term independent of x in the expansion of $\left(x^2+\frac{2}{x}\right)^{15}$ 5

OR

Show that the ratio of the coefficient of x^{10} in the expansion of $(1-x^2)^{10}$ and the term independent of x in the expansion of $\left(x-\frac{2}{x}\right)^{10}$ is 1: 32.

SECTION-E

20. The number of bacteria in a certain culture doubles every hour. Given that the number of bacteria present at the end of 4^{th} hour was 1,60,000. Based on the above information answer the following questions

i) Find the number of bacteria present originally. 1

ii) Find the number of bacteria present at the end of 7^{th} hour. 1

iii) Find the sum of number of bacteria present originally at the end of 8^{th} hour. 2

OR

If the number of bacteria triples every hour , then find the number of bacteria present at the end of 4^{th} hour (If the number of bacteria present originally is 10000).

==========

Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PRE BOARD-II EXAMINATION : [2025-2026]
CLASS - XI
MATHEMATICS

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 09 **MCQ's and 02** Assertion – Reason based questions of 1 mark each.*
***3. Section B** has 03 **Short Answer (SA) – type** questions of 2 marks each.*
*4. **Section C** has 03 **Long Answer (LA-I) – type** questions of 3 marks each.*
*5. **Section D** has 02 **Long Answer (LA-II) – type** question of 5marks.*
*3. **Section E** has 01 **Case Based (CBQ) – type** questions of 4 marks each with sub parts.*

==========

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

1. The equations of the lines through (1, 1) and making angles of 45❑° with the line x + y = 0 — 1
   a) x – 1 = 0, y – 1 = 0
   b) x – y = 0, y – 1 = 0
   c) x + y = 0, y – 1 = 0
   d) x – 1 = 0, x – y = 0
2. The equation y❑² - x ❑² + 2x - 1 = 0 represents — 1
   a) a pair of straight lines
   b) an ellipse
   c) a parabola
   d) a circle
3. The line 2x - y + 4 = 0 cuts the parabola y❑² = 8x in P and Q. The mid - point of PQ is — 1
   a) (- 1, - 2)
   b) (1, - 2)
   c) (1, 2)
   d) (- 1, 2)

4. The eccentricity of the conic $9x^2 + 25y^2 = 225$ is 1

a) $\frac{2}{5}$

b) $\frac{1}{5}$

c) $\frac{1}{3}$

d) $\frac{4}{5}$

5. The eccentricity of the hyperbola whose latus - rectum is half of its transverse axis, is 1

a) $\frac{1}{\sqrt{2}}$

b) $\frac{3}{\sqrt{2}}$

c) $\sqrt{\frac{2}{3}}$

d) $\sqrt{\frac{3}{2}}$

6. L is the foot of the perpendicular drawn from a point (6, 7, 8) on x - axis. The coordinates of L are 1

a) (0, 0, 6)

b) (0, 0, 8)

c) (0, 7, 0)

d) (6, 0, 0)

7. If A be one A.M. and p, q be two G.M.'s between two numbers, then 2 A is equal to 1

a) $\frac{p^3-q^3}{pq}$

b) $\frac{pq}{2}$

c) $\frac{p^3+q^3}{pq}$

d) $\frac{p^2+q^2}{2}$

8. If $\frac{a+bx}{a-bx}=\frac{b+cx}{b-cx}=\frac{c+dx}{c-dx}, x\neq 0$ then a, b, c, d are in 1

a) G.P.

b) H.M

c) A.P.

d) H.P.

9. If the coefficients of $(2r + 4)^{th}$ term and $(r - 2)^{th}$ term in the expansion of 1

$(1 + x)^{18}$ be equal then, find the value of r

a) 7

b) 6

c) 8

d) 5

ASSERTION – REASON BASED QUESTIONS

10. **Assertion (A):** The sum of first 6 terms of the GP 4, 16, 64, ... is equal to 5460. 1

Reason (R): Sum of first n terms of the G.P is given by $S_n = \frac{a(r^n-1)}{r-1}$, where a = first term r = common ratio and |r| > 1.

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.

11. **Assertion (A):** For every point P(x, y, z) on XY plane, Z - component is zero. 1

Reason (R): For every point Q(x, y, z) on XZ plane, Y - component is zero.

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

12. Find the equation of the ellipse whose axes are along the coordinate axes, foci at (0,± 4) and eccentricity 4/5. 2

13. Find the equation of the hyperbola where foci are (0,± 12) and the length of the latus rectum is 36. 2

OR

Find the equation of a hyperbola whose distance between foci is 16 unit and eccentricity is $\sqrt{2}$.

14. Find the third vertex of triangle whose centroid is origin and two vertices are (2, 4, 6) and (0, - 2, - 5). 2

SECTION - C

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

15. Find the equations of the lines through the point of intersection of the lines $x - y + 1 = 0$ and $2x - 3y + 5 = 0$ and whose distance from the point (3, 2) is $\frac{7}{5}$. 3

OR

If sum of the perpendicular distances of a variable point P(x, y) from the lines $x + y - 5 = 0$ and $3x - 2y + 7 = 0$ is always 10. Show that P must move on a line.

16. Find the equation of the parabola with vertex at the origin, passing through the point P(3, - 4) and symmetric about the y - axis. 3

17. Find the sum of the series: 7 + 77 + 777 + ... to n terms. 3

SECTION - D

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

18. Find the equation of a circle passing through the point (7, 3) having radius 3 units and whose centre lies on the line $y = x - 1$. 5

19. The 3^{rd}, 4^{th} and 5^{th} terms in the expansion of $(x + a)^n$ are respectively 84, 280 and 560. Find the values of x, a and n. 5

OR

Find the ratio of the coefficient of x^{15} to the term independent of x in the expansion of $\left(x^2+\frac{2}{x}\right)^{15}$

SECTION - E

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

20. **Read the following text carefully and answer the questions that follow:** 4

A sequence of non - zero numbers is said to be a geometric progression, if the ratio of each term, except the first one, by its preceding term is always constant.

Rahul being a plant lover decides to open a nursery and he bought a few plants with pots. He wants to place pots in such a way that the number of pots in the first row is 2, in the second row is 4 and in the third row is 8 and so on ... .

(i) Represent the above information in form of sequence name the

sequence and also find the constant multiple by which the number of pots is increasing in every row?

(ii) If Rahul wants to place 510 pots in total, find then the total number of rows formed in this arrangement?

(iii) Find the total number of pots up to 10❑th row?

OR

Find the total number of pots up to 8 ❑th row?

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Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST-3 (2025-26)

BIOLOGY

Class – XI

Time: 1.5 Hours **Maximum Marks : 40**

==========

GENERAL INSTRUCTIONS:

1. *This question paper consists of 17 questions in 4 sections*
2. *All questions are compulsory.*
3. *Section A consists of 5 objective type questions carrying 1 marks each.*
4. *Sections B consists of 5 very short answer type questions carrying 2 marks each.*
5. *Section C consists of 5 short answer type questions carrying 3 marks each.*
6. *Section D consists of 2 long answer type question carrying 5 marks each.*

==========

Section –A

1 Who reported that cells have a thin outer layer which is today known as the plasma membrane? 1

a) Robert Hooke

b) Robert Brown

c) Schleiden

d) T Schwann

2. Name the most abundant protein in the animal world 1

a) Insulin

b) Collagen

c) Trypsin

d) RuBisCo

3. An onion root tip has 14 chromosomes in each cell. How many chromosomes the cell would have at G_1 phase? 1

a) 28

b) 14

c) 62

d) 7

Question No. 4 and 5 consists 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

4. ASSERTION: The rate of photosynthesis increases linearly with increasing light intensity. 1

REASON: At low intensity of light photosynthesis activity is increased.

5. ASSERTION: Yeast cells show alcoholic fermentation. 1

REASON: Fermentation is an aerobic process.

SECTION—B

6. In what respect the mitochondria and plastid resemble the bacteria? 2

7. What is G_0 (quiescent phase) of cell cycle? 2

8. What is Kranz anatomy? 2

9. What are the products formed by the splitting of Fructose- 1,6-bisphosphate? 2

10. Why is abscisic acid also known as stress hormone? 2

SECTION-C

11. The velocity of the enzymatic reaction increases with the increase of substrate concentration initially but after sometime it gets constant. Explain. 3

12. Define crossing over and state its significance. 3

13. Cyclic photophosphorylation results in the production of ATPs and not NADPH. Give reasons. 3

14. Define RQ. What is its value for fats? 3

15. In which region of the plant, production of auxin is abundant? Name one natural and one synthetic auxin each. 3

SECTION-D

16. Discuss in detail the various steps of the Calvin cycle with the help of a schematic diagram. 5

17. Describe the TCA cycle with the help of a schematic diagram. 5

==========

Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR

PERIODIC TEST-3 (2025-26)

BIOLOGY

Class – XI

Time: 1.5 Hours Maximum Marks : 40

==========

General Instructions:

i ***All questions are compulsory.***

ii ***The question paper contains four sections and 17 questions.***

iii ***Section A has 5 questions of 1 mark each,containing 3 MCQ and 2 R/A type. Section B has 05 questions of 2 marks each. Section C has 5 questions of 3 marks each and section D has 2 questions of 5 marks each.***

iv ***Wherever necessary, neat and properly labeled diagrams should be drawn.***

==========

SECTION A

1. What is the important site of formation of glycoproteins and glycolipids? 1

a)Peroxisomes b) Golgi bodies

c) Mitochondria d) Ribosomes

2. Transition state structure of substrate formed during an enzyme reaction is 1

a)Permanent and stable b) Transient but stable

c) Permanent but unstable d) Transient but unstable

3. Attachment of spindle fibres to kinetochores of chromosome becomes evident in 1

a) S phase b) Metaphase

b) c)Anaphase d)Prophase

Question No. 4 and 5 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.

4.	Assertion:- C4 photosynthetic plants are more efficient than C3 plants, Reason|:-Photorespiration is suppressed in C4 plants	1
5.	Assertion: - Glucose is favoured respiratory substrate. Reason: - Glucose is completely oxidized. RQ is 1	1

SECTION B

6.	What are cytoskeleton elements? Mention its functions.	2
7.	What is the significance of vacuole in a plant cell?	2
8.	Differentiate between C3 and C4 plants.	2
9.	Enlist some important differences between glycolysis and fermentation.	2
10.	Mention two functions of Cytokinin.	2

SECTION C

11.	Explain the various factors which affect Enzyme activity.	3
12.	Briefly explain the stages of Prophase I in Meiosis I.	3
13.	What is Photorespiration? Why is it a wasteful process?	3
14.	Define Respiratory Quotient? Calculate the respiratory quotient of Glucose. Why is Kreb cycle considered to be amphibolic in nature?	3
15.	Write a short note on Gibberellins. Mention some functions of it.	3

SECTION D

16.	Explain the Calvin Cycle of photosynthesis.	5
17	Schematically represent the steps of Glycolysis.	5

==========

NAME: _____ SEC: _____ ROLL NO: _____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST-III : [2025-2026]
COMPUTER SCIENCE (083)
CLASS-XI

TIME: 1 ½ Hrs. **Maximum Marks: 40**

==========

General Instructions:

- ***This question paper contains 21 questions.***
- ***All questions are compulsory.***
- ***The paper is divided into 5 Sections- A, B, C, D and E.***
- ***Section A consists of 11 questions (1 to 11). Each question carries 1 Mark.***
- ***Section B consists of 5 questions (12 to 16). Each question carries 2 Marks.***
- ***Section C consists of 2 questions (17 to 18). Each question carries 3 Marks.***
- ***Section D consists of 1 question1 (20). Each question carries 4 Marks.***
- ***Section E consists of 1 questions (21). Each question carries 5 Marks.***
- ***All programming questions are to be answered using Python Language only.***
- ***In case of MCQ, text of the correct answer should also be written.***

==========

SECTION A

1. The list( ) and copy( ) are the similar functions. [1]
[TRUE OR FALSE]

2. Which of the following two Python codes will give the same output? [1]

If tup1=(1, 2, 3, 4, 5)

(i) print(tup1[:-1])

(ii) print(tup1[0:5])

(iii) print(tup1[0:4])

(iv) print(tup1[-4:])

(a) i, ii

(b) ii, iv

(c) ii, iii

(d) i, iii

3. Which of the following is/are correctly declared tuple(s) ? [1]

a.x = ("Hina", "Mina", "Tina", "Nina")

b.x = "Hina", "Mina", "Tina", ["Nina"]

c.x = ["Hina", "Mina", "Tina", "Nina"]

d.x = {"Hina", "Mina", "Tina", "Nina"}

4. What will be the output of the following Python code ? [1]

```
tp = ()
tp1 = tp * 2
print(len(tp1))
```

a.0 b.2 c.1 d.Error

5. What will be the output of the following: [1]

```
d = {2 : "def" , 3 : "abc" , 1 : "mno"}
print(sorted(d))
```

6. Unauthorised monitoring of other people's communications is called _____. [1]

a.Digital signature b.Cookies

c.Eavesdropping d.Firewall

7. Given [1]
L=[0,9,7,2,3,['p','q','r'],4]
The statement L[5]*2 gives
(a) 15
(b) 12
(c) [‘p’, ‘q’, ‘r’, ‘p’, ‘q’, ‘r’]
(d) [‘p’, ‘p’]

8. Let list1 = [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.pop(1)? [1]
(a) [3, 4, 5, 20, 5, 25, 1, 3]
(b) [1, 3, 3, 4, 5, 5, 20, 25]
(c) [3, 5, 20, 5, 25, 1, 3]
(d) [1, 3, 4, 5, 20, 5, 25]

9. _____ refers to methods used for interpretation of computer media for digital evidence. [1]
a.Digital signature b.Cookies
c.Digital forensics d.Firewall

10. Write the output of the code given below: [1]
my_dict = {"name": "Aman", "age": 26}
my_dict['age'] = 27
my_dict['address'] = "Delhi"
print(my_dict. items())

(a) dict_items(['Aman', 27, 'Delhi'])
(b) dict_items(['name': 'Aman','age': 27, 'Delhi'])
(c) dict_items([('name', ’Aman'), ('age', 27), ('address', 'Delhi')])
(d) None of these

Q11 ASSERTION AND REASONING based questions. [1]
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**: Dictionaries are also called mapping. [1]

Reason: A dictionary represents a mapping from keys to values

SECTION-B

12. Start with the list [8, 9, 10]. Do the following using list functions: [2]

1. Insert 25 at index 3
2. Remove the first entry from the list

13. What is the difference between (30) and (30,) ? [2]

14. How is clear( ) function different from del <dict> statement ? [2]

15. Compare lists with strings. How are they similar and how are they different? [2]

16. What does fromkeys( ) method do in a dictionary? [2]

SECTION-C

17. What are the three damages caused by Spyware? [3]

18. What would be the output of following code if [3]

```
ntpl = ("Hello", "Nita", "How's", "life?")
(a, b, c, d) = ntpl
print ("a is:", a)
print ("b is:", b)
print ("c is:", c)
print ("d is:", d)
ntpl = (a, b, c, d)
print(ntpl[0][0]+ntpl[1][1], ntpl[1])
```

SECTION D

19. Given a tuple pairs = ((2, 5), (4, 2), (9, 8), (12, 10)), count the number of pairs (a, b) such that both a and b are even. [4]

OUTPUT:

The number of pair where both a and b are even: 2

20. Consider the following code and then answer the questions that follow : [4]

```
myDict = {'a' : 27, 'b' : 43, 'c' : 25, 'd' : 30}
valA =' '
for i in myDict :
  if i > valA :
    valA = i
    valB = myDict[i]
print(valA)                          #Line1
print(valB)                           #Line2
print(30 in myDict)                  #Line3
myLst = list(myDict.items())
myLst.sort()                         #Line4
print(myLst[-1])                     #Line5
```

1. What output does Line 1 produce ?
2. What output does Line 2 produce ?
3. What output does Line 3 produce ?
4. What output does Line 5 produce ?

SECTION E

21 Write a program to compare two equal sized lists and print the first index where they differ. [5]

EXAMPLE:

```
Enter two equal sized lists
Enter first list: [80, 60, 50, 40, 30]
Enter second list: [80, 60, 55, 42, 30]
Lists differ at index 2
```

==========

```
Enter two equal sized lists
Enter first list: [80, 60, 50, 40, 30]
Enter second list: [80, 60, 50, 40, 30]
Lists are equal
```

==========

Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR

COMPUTER SCIENCE (083)

PERIODIC TEST-3 : (2025-2026)

CLASS: XI

Time: 1 ½ Hrs. **Maximum Marks: 40**

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General Instructions:

- ***This question paper contains 21 questions.***
- ***All questions are compulsory.***
- ***The paper is divided into 5 Sections- A, B, C, D and E.***
- ***Section A consists of 11 questions (1 to 11).***
  Each question carries 1 Mark.
- ***Section B consists of 5 questions (12 to 16).***
  Each question carries 2 Marks.
- ***Section C consists of 2 questions (17 to 18).***
  Each question carries 3 Marks.
- ***Section D consists of 1 question1 (20). Each question carries 4 Marks.***
- ***Section E consists of 1 questions (21). Each question carries 5 Marks.***
- ***All programming questions are to be answered using***
  Python Language only.
- ***In case of MCQ, text of the correct answer should also be written.***

==========

Section-A
Each question carries 1 marks

1. State **TRUE** or **FALSE**: 1
   ‘ The insert function is used to insert an element at a designated position in a list ’
2. What will be the output of the following Python code? 1

```
tp1 = (2, 3, 4)
tp3 = tp1 * 2
print(tp3)
```

a. (4,8,6) b. (2,4,3,2,4,3) c. (2,2,4,4,3,3) d. Error

3. Which of the below given functions cannot be used with nested tuples? 1

a. index() b. count() c. max d. sum()

4. What will be the output of the following Python code? 1

```
t = (10,20,30,40,50,50,70)
print(t[5:-1])
```

a. blank output() b. (50,70) c. (50,50,70) d. (50,)

5. Why the popitem() is useful to destructively iterate over a dictionary? 1

6. The type of fraud that involves using some else's identity online, is called ____. 1

a. Phishing b. Cyber Stalking

c. Identity theft d. Plagiarism

7. Which of the following can delete an element from a list, if its value is given? 1

a. pop() b. remove() c. del d. none

8. Which of the following will always return a list? 1

a. max() b. sort() c. sorted() d. none

9. Methods used for interpretation of computer media for digital evidence, are collectively known as ____. 1

a. Digital investigation b. Digital clearing

c. e-forensics d. Digital forensics

10. A copy of the dictionary where only the copy of the keys is created for the new dictionary, called ____ copy. 1

a. key copy b. deep copy

c. shallow copy d. partial copy

<u>Q11 is ASSERTION (A) and REASONING (R) based questions. Mark the correct choice as:</u>

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

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

(c) A is True but R is false (or partly true).

(d) A is false (or partly true) but R is true.

(e) Both A and R are False or not fully true.

11. **Assertion (A)**: Dictionaries are similar to lists, in a way. 1

Reasoning (R): Dictionaries are similar to lists, only in mutability.

SECTION–B
Each question carries 2 marks

12. Assume the following list definition in Python. 2

```
>>> letters = [“a”, “b”, “o”, “c”, “p”]
```

What would be displayed in a Python shell for each of the following expressions if they are evaluated in the given order? If it would give an error then write error.

(i) `>>> letters[-1]`

(ii) `>>> letters[len( letters)-2]`

13. When should tuples be preferred over lists? 2

14. Write the output of the following code fragment. 2

```
aDict = {‘Bhavna’:1, ‘Richard’:2, ‘Firoza’:10, ‘Aman’:7}
temp = 0
for value in aDict.values():
    temp = temp + value
print(temp)
```

15. L is a non-empty list of ints. Print the smallest and largest integer in L. write the code without using a loop. 2

16. Can sequence operations such as slicing and concatenation be applied to dictionaries? Why? 2

Section-C
Each question carries 3 marks

17. Protecting yourself (i.e. your computers) against viruses involves some safeguards. Mention any three. 3

18. Write a program to check if a tuple contains any duplicate elements. 3

Section-D
Each question carries 4 marks

19. Consider the following tuples: t1 and t2: 4

t1 = (23,1,45,67,45,9,55,45)

t2 = (100,200)

find the output of the following statements:

i. print(t1.index(45))

ii. print(t1.count(45))

iii. print(sum(t2))

iv. print(min(t1))

20. Write program to create a dictionary namely **Dct** with 3 keys 0..2, each having values as 50. Update the first and last values by adding 10 to each of them. 4

Section-E
Each question carries 5 marks

21. Write the most appropriate list method to perform the following tasks: 5

(a) Delete a given element from the list.

(b) Delete 3rd element from the list.

(c) Add an element in the end of the list.

(d) Add an element in the beginning of the list.

(e) Add elements of a list in the end of a list.

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Name: _____ Sec: ____ Roll No.: ____

CODE-A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST - 3: [2025-2026]
ACCOUNTANCY
CLASS: XI

Time: 1 ½ Hours **Maximum Marks: 40**

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General Instructions:

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 multiple choice questions. Each question carries 1 mark.

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

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

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

==========

1. An amount of ₹5,000 received from X was posted to the debit of Y. In rectifying entry ____ account will be debited by ____. 1

(A) X ₹5,000 (B) Y ₹5,000
(C) Suspense A/c ₹10,000 (D) Suspense A/c ₹5,000

2. Assertion (A): Bills Receivable, Debtors and Stock are liquid assets. 1
Reason (R): Liquid assets are those which are either in the form of cash or can be quickly converted into cash.
(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

3. Which of the following best describes the "Depreciation"? 1

(A) Valuation office at the end of the year
(B) Verification of assets
(C) Allocation of cost of fixed assets over its useful life
(D) Decreasing the market value of assets

4. Reserve is created: 1

(A) To meet the known losses
(B) To meet the unforeseen losses
(C) To ascertain true profit or loss
(D) To ascertain true financial position

5. Goods purchased from Amar for ₹12,000 were recorded as ₹21,000 in purchases book. Rectifying entry will be: 1

(A) Purchase A/c…..Dr ₹12,000
To Amar. ₹12,000
(B) Amar…..Dr. ₹21,000
To Purchase A/c. ₹21,000
(C) Purchase A/c…..Dr ₹9,000
To Amar. ₹9,000
(D) Amar…..Dr. ₹9,000
To Purchase A/c. ₹9,000

6. Short-term loan comes under the heading of _____ in Balance Sheet of a company. 1

(A) Current Liability (B) Current Assets
(C) Fixed Assets (D) Intangible Assets

7. Creation of Provision is: 1

(A) Voluntary (B) Illegal
(C) Necessary (D) Unnecessary

8. Purchase price of a machine is ₹2,00,000 and its installation charges are ₹30,000. It's scrap value is ₹5,000. If it is depreciated @10% p.a. on diminishing balance method, the depreciation in the first year will be: 1

(A) ₹23,000 (B) ₹22,500
(C) ₹23,500 (D) ₹16,500

9.	₹50,000 paid to Mohan for overhauling of old machinery purchased will be debited to: (A) Repair A/c (B) Mohan's A/c (C) Wages A/c (D) Machinery A/c	1
10.	A firm purchased on 1st April 2021 a second-hand machinery for ₹50,000 and spent ₹10,000 on its installation. On 1st July in the same year additional machinery was purchased for ₹20,000. Depreciation is provided each year on 31st December @5% on wdv of the asset. The amount of depreciation in the first year will be: (A) ₹4,000 (B) ₹3,250 (C) ₹3,500 (D) ₹2,750	1
11.	Distinguish between provision and reserve on the basis of following points: (a) Meaning (b) Mode of creation (c) Utilisation of dividend	3
12.	Pass necessary journal entries to rectify the following errors: (i) A credit sale of ₹1,700 to Krishna was posted to Kishan's Account (ii) Paid wages for construction of office debited to wages account ₹20,000 (iii) Purchase machinery for rupees ₹50,000 was passed through the purchase book	3
13.	Ascertain the gross profit from the following: Opening stock ₹20,000 Closing stock ₹18,000 Purchases ₹85,000 Carriage on purchases ₹2,300 Carriage on sales ₹3,000 Office rent ₹5,800 Sales ₹1,40,700	4

14. Rectify the following errors: 4

(i) A purchase of ₹5,000 from Ram was omitted to be entered.

(ii) A credit sale of ₹257 to M/s Good Luck & company was recorded as ₹275.

(iii) A purchase of office furniture for ₹500 from Salwan Furniture's was entered through the purchase book.

(iv) Rent paid to landlord ₹500 was debited to his personal account.

15. Identify the concept from the following: 4

(i) It is created for expansion of business through internal resources or ploughing back of profits.

(ii) Such a reserve creates to maintain steady rate of dividend.

(iii) Such a reserve is created to provide finances for the replacement of an asset at the end of its serviceable life.

(iv) It is created to provide for decline in the value of its investment due to market fluctuations.

16. On 1st April 2022 X Ltd. purchased machinery for ₹12,00,000. On 1st October, 2024, a part of the machinery purchased on 1st April 2022 for ₹80,000 was sold for ₹45,000 and a new machinery at a cost of ₹1,58,000 was purchased and installed on the same date. The company adopted the method of providing 10% per annum depreciation on the diminishing balance of the machinery. 6
Show Machinery Account and Provision for Depreciation Account up to 31st March 2025.

17. Prepare Trading and Profit and loss Account from the following balance is relating to the year ended 31st March 2023: 6

Particulars	₹(Dr.)	₹(Cr.)
Capital……		1,00,000
Creditors……		12,000
Return outward……..		5,000
Sales……...		1,64,000
Bills payable……..		5,000
Plant and machinery……..	40,000	
Sundry Debtors……..	24,000	
Drawings……	10,000	
Purchases……...	1,05,000	
Return inward……	3,000	
Wages……	50,000	
Bank……...	10,000	
Repairs……..	500	
Stock on 1st April 2022……...	20,000	
Rent……	4,000	
Manufacturing expenses…….	8,000	
Trade expenses……...	7,000	
Bad Debts……...	2,000	
Carriage……..	1,500	
Fuel and power……..	1,000	
	2,86,000	2,86,000

Additional information:
(i) Closing stock was valued at ₹14,500
(ii) Depreciate plant and machinery by ₹4,000
(iii) Write of bad debts ₹5,000
(iv) A sum of ₹400 is due for repairs

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Name: _____ Sec: ____ Roll No.: ____

CODE-B

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST - 3: [2025-2026]
ACCOUNTANCY
CLASS: XI

Time: 1 ½ Hours **Maximum Marks: 40**

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General Instructions:

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 multiple choice questions. Each question carries 1 mark.

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

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

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

==========

1. An amount of ₹8,460 spent on the extension of Building was wrongly debited to Repairs A/c as ₹4,860. In rectifying entry Suspense A/c will be credited by: 1

(A) ₹3,600 (B) ₹4,860
(C) ₹8,460 (D) ₹13,320

2. Assertion(A): Profit and Loss Account is a periodic statement because it is prepared for a particular period. 1
Reason(R): Balance Sheet is a point statement because it is prepared on a particular date.
(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

3. Depreciation arises due to: 1

(A) Fluctuations
(B) Fall in the value of money
(C) Temporary fall in the market value of assets
(D) Physical wear and tear

4. Provision is made: 1

(A) To provide for known losses
(B) To provide for unknown losses
(C) To face the financial difficulties
(D) To strengthen the financial position

5. Goods purchased from X for ₹20,000 was recorded as ₹2,000 in purchase book. Rectifying entry will be: 1

(A) Purchase A/c……Dr ₹2,000
To X. ₹2,000
(B) Purchase A/c……Dr ₹22,000
To Suspense A/c. ₹22,000
(C)Suspense A/c. ₹18,000
To X. ₹18,000
(D) Purchase A/c……Dr ₹18,000
To X. ₹18,000

6. Goodwill is showing under the heading of ---------- in the Balance Sheet of a company. 1

(A) Fixed Asset (B) Current Asset
(C) Current Liability (D) Added with capital

7. Creation of Reserve is: 1

(A) Illegal
(B) Necessary
(C) Not necessary
(D) Useless

8. On 1st October 2021, a machine is purchased for ₹3,60,000 and ₹40,000 are spent on its installation. Depreciation is charged @10% p.a. on original cost method. Books are closed on 31st March each year. On 31st March, 2023 depreciation charged will be: 1

(A) ₹20,000 (B) ₹40,000
(C) ₹38,000 (D) ₹36,000

9. ₹5,000 paid as rent for the residential house of proprietor were debited to rent account as ₹500. In rectifying entry, Drawings A/c should be debited with 1

(A) ₹5,000 (B) ₹500

(C) ₹4,500 (D) ₹5,500

10. On 1st July 2021, a firm purchased a machinery for ₹4,00,000. On 1st October in the same year additional machinery was purchased for ₹1,00,000. Depreciation is provided each year on 31st December @10% p.a. on wdv of the asset. The amount of depreciation in the first year will be: 1

(A) ₹22,500 (B) ₹50,000

(C) ₹30,000 (D) ₹42,500

11. Distinguish between provision and reserve on the basis of following points: 3

(a) Necessity (b) Object (c) Utilisation for other purposes

12. Rectify the following errors: 3

(i) Wages paid for the construction of office debited to the wages A/c ₹5,000

(ii) Machinery purchased for ₹35,000 was passed through purchase book

(iii) ₹2,000 paid to Mehta Bros against acceptance were debited to Malhotra Bros A/c

13. From the following prepared profit and loss account: 4

Salaries and wages ₹3,000
Commission paid ₹200
Postage and telegram ₹150
Insurance ₹300
Interest paid ₹400
Carriage outward ₹500
Advertising ₹1,000
Discount allowed ₹1,800
Rent received ₹1,700
Interest on investment ₹1,500
Bad Debts ₹900
Brokerage paid ₹95

The gross profit was ₹29,250

14. Rectify the following errors: 4

(i) Rent of proprietor's residence of ₹6,000 was debited to rent A/c

(ii) A credit sale of ₹1,000 to Ram omitted to be recorded in the books

(iii) ₹50,000 paid to the CA Mr. Madhur as consultancy stands debited to his personal account

(iv) Credit purchase of goods amounting to ₹10,000 from Ramesh has been recorded as ₹1,00,000.

15. Identify the concept from the following: 4

(i) It is created to make compensation table to workers in case of unexpected or unknown events of an accident.
(ii) It is created to provide funds for the redemption or the payment of debenture.
(iii) This type of reserves are used to write of capital losses.
(iv) It is such a reserve which is not disclosed by balance sheet.

16. On 1st April 2020 X Ltd. purchased machinery for ₹12,00,000. On 1st October, 2022, a part of the machinery purchased on 1st April 2020 for ₹80,000 was sold for ₹45,000 and a new machinery at a cost of ₹1,58,000 was purchased and installed on the same date. The company adopted the method of providing 10% per annum depreciation on the diminishing balance of the machinery. 6
Show Machinery Account and Provision for Depreciation Account up to 31st March 2023.

17. Prepare trading and profit and loss account for the year ended date 31st March 2023 from the following information: 6

Particulars	₹(Dr.)	₹(Cr.)
Machinery……..	40,000	
Cash at Bank……..	10,000	
Cash in hand……..	5,000	
Wages…….	10,000	
Purchases……	80,000	
Stock on 1st April 2022..	60,000	
Sundry Debtors……...	44,000	
Bills receivable……..	29,000	
Rent……	4,500	
Commission……	2,500	
General expenses……	8,000	
Salaries……	5,000	
Capital…….		90,000
Sales……		1,60,000
Sundry creditor……..		45,000
Interest received…….		3,000

Additional information:
(i) Outstanding salaries ₹4,500 and outstanding wages ₹500
(ii) Depreciate machinery at 10%
(iii) Rent prepaid ₹1,000
(iv) Stock on 31st March 2023 ₹80,000

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Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST 3: (2025-2026)
BUSINESS STUDIES
CLASS: XI

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

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General Instructions:

1. These question paper contains 17 questions.
2. It is advised to attempt all questions.
3. Question 1 to 10 carries 1 mark each.
4. Question 11 & 12 marks each.
5. Question 13 to 15 carries 4 marks each.
6. Question 16 to 17 carries 6 marks each.

==========

1. Identify from the following which is not the characteristic of fixed shop retailers? 1
(a) Dealing with different products
(b) Have greater resources
(c) Independent shops of temporary nature facilities
(d) Mostly provides credit

2. Meera is a cautious investor who prioritises a stable income with minimal risk. She is considering investing in a company's financial instrument that offers fixed dividends but does not provide voting rights or a share in management decisions. 1
The company assures her that its assets will not be mortgaged to raise these funds.
Which financial instrument is the company offering to Meera?
(a) Equity shares
(b) Debentures
(c) Preference shares
(d) Public deposits

3. People who own, operate and take risk for a business venture is called 1
(a) aptitude
(c) entrepreneur
(b) employee
(d) entrepreneurship

4. A company is planning to issue shares that ensure fixed annual 1

dividends but do not allow shareholders to claim any unpaid dividends in future years. The company clarifies that these shares will not grant holders the right to share in surplus profits or convert them into equity shares.
What type of preference shares is the company offering?
(a) Cumulative convertible preference shares
(b) Non-cumulative non-participating preference shares
(c) Participating convertible preference shares
(d) Non-cumulative participating preference shares

5. Entrepreneurship provides: 1
(a) capital investment
(b) self-employment
(c) administration
(d) marketing

6. Neha owns a stationery and gift shop located in the city's main market. Her shop is permanently established and well-known among locals for its wide range of products, including notebooks, pens, gift items consumer durables like lamps. 1
Customers trust her shop for quality products and reliable services such as home delivery and occasional credit facilities for regular buyers. What type of retailer is Neha?
(a) Street trader/pavement vendor
(b) Hawker
(c) Fixed shop retailer
(d) Periodic market trader

7. Assertion (A) Loans from financial institutions are a better option for long-term finance. 1
Reason (R) Financial institutions provide technical and managerial support along with financial assistance
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

8. Debentures are a preferred investment option for those who seek fixed income with lesser risk. This makes them suitable for 1

investors who want predictable returns. Identify the merit of debentures discussed in the statement.
(a) They provide variable returns based on company profits
(b) They are suited for investors seeking fixed income at lesser risk
(c) They offer high returns with high risk
(d) They carry voting rights for investors

9. Nidhi noticed the increasing demand for eco-friendly home decor items. She launched a business creating products using recycled materials and traditional artisan techniques. Nidhi secured initial funding through bootstrapping and later received a grant under the start-up India initiative. Her products gained popularity due to their unique designs and environmental sustainability, attracting customers both domestically and internationally. Which characteristic of entrepreneurship is reflected in Nidhi's business approach? 1
(a) Goal-oriented activity
(b) Related to innovation
(c) Economic independence
(d) Risk bearing

10. 'Fashion Hub,' located in the heart of the city market, specialises in readymade garments. The shop offers a wide variety of clothing options for all age groups, providing customers with an extensive selection within the garment category. Its central location attracts a large number of shoppers who trust the store for its exclusive focus on quality apparel. What type of retail shop is 'Fashion Hub'? 1
(a) Departmental store
(b) Periodic market trader
(c) Single line store/Speciality shop
(d) General store

11. "MSME and entrepreneurship are connected" Do you agree? Give reasons. 3

OR

State any three main objectives of start-up India scheme. 3

12. Differentiate between Internal and External sources of raising funds? 3

13. "Funding a start-up can be achieved through various sources such as venture capital, crowd funding, bank loans and angel investors. Each of these funding methods has its own set of advantages, such 4

as quicker access to capital or the possibility of mentorship. However, challenges like equity dilution, high interest rates or a lack of investor interest may arise."
In light of the above statement, discuss the various methods to fund a start-up.

14. "Equity shares provide companies with a permanent source of capital without any obligation to repay the funds. However, they dilute the control of existing shareholders and involve higher costs due to dividend expectations and regulatory compliance." In light of the above statement, explain the drawbacks of equity shares. 4

OR

"Preference shareholders often hold a unique position in a company, benefitting from rights such as priority in dividend distribution and repayment of capital in liquidation. However, these rights also limit their influence on company management." In light of the above statement, list the two preferential rights enjoyed by preference shareholders compared to equity shareholders. 4

15. Briefly discuss the services that are provided by wholesalers to retailers. 4

16. The government of Country X has launched several initiatives aimed at boosting employment, such as 'Youth Empowerment Programme' and 'Innovation for Growth.' However, these programmes have not yielded the expected results and experts suggest that the root cause lies in the lack of entrepreneurial skills among the youth. 6
Despite the availability of resources and opportunities, many young individuals are unable to harness their potential in the job market, leading to a rise in unemployment.
(i) Identify the concept which can reduce the unemployment problem in Country X.
(ii) State the need of this concept in India.

17. Itinerant traders have been an integral part of internal trade in India. Analyse the reasons for their survival in-spite of competition from large-scale retailers. 6

OR

Explain the usefulness of mail orders houses. What type of products are generally handled by them? Specify. 6

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Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST 3: (2025-2026)
BUSINESS STUDIES
CLASS: XI

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

==========

General Instructions:

1. These question paper contains 17 questions.
2. It is advised to attempt all questions.
3. Question 1 to 10 carries 1 mark each.
4. Question 11 & 12 marks each.
5. Question 13 to 15 carries 4 marks each.
6. Question 16 to 17 carries 6 marks each.

==========

1. Wholesaler not just buys goods from manufacturers, but they also help manufacturer in marketing of the product by 1
(a) storing goods in bulk quantities
(b) making cash payment
(c) transportation facilities
(d) conveying retailers' feedback to manufacturer

2. Which of the following preferential rights is/are enjoyed by preference shareholders over equity shareholders? 1
(a) Right to receive repayment of capital before that of equity
(b) Right to receive fixed rate of dividend
(c) Both (a) and (b)
(d) Voting rights

3. Which of the following is a service offered by the wholesaler to a retailer? 1
(a) Facilitate production continuity
(b) Facilitates large-scale production
(c) Risk sharing
(d) Storage

4. "Retained earnings offer a permanent source of capital without involving explicit costs. However, excessive ploughing back of profits may cause dissatisfaction among shareholders." 1
Identify the disadvantage of retained earnings discussed in the above statement.
(a) They may lead to dissatisfaction among shareholders due to

lower dividends
(b) They are not suitable for long-term financial needs
(c) They are uncertain and fluctuate with profits
(d) They require the payment of interest

5. Which of the following statements is incorrect? 1
(a) Entrepreneurship involves lawful activities and aims to create both personal profit and social gain
(b) Entrepreneurship is primarily concerned with static processes and avoids frequent changes in the enterprise
(c) Entrepreneurs mobilise resources like land, labour, capital and technology to establish productive enterprises
(d) Entrepreneurship involves risk bearing as an inherent element, with the possibility of both profit and loss

6. Ravi, an aspiring entrepreneur, identified a business opportunity in developing solar-powered gadgets. He evaluated the feasibility of his idea by conducting thorough research and decided to launch a company. To fund his start-up, he approached an angel investor and also used crowd funding platforms. 1
His business idea was recognised under the Start-up India initiative as it was innovative and met all the eligibility criteria. Ravi aims to expand his venture by utilising government schemes like MUDRA and promoting environmental sustainability through his products.

Which step of the entrepreneurship development process did Ravi perform when he conducted research on his business idea's feasibility?
(a) Self-introduction
(b) Assessment of selected business idea
(c) Raising start-up capital
(d) Fostering growth

7. Assertion (A) Loans from financial institutions are a better option for long-term finance. 1
Reason (R) Financial institutions provide technical and managerial support along with financial assistance
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

8. A company is planning to issue shares that ensure fixed annual dividends but do not allow shareholders to claim any unpaid dividends in future years. The company clarifies that these shares will not grant holders the right to share in surplus profits or convert them into equity shares. 1
What type of preference shares is the company offering?
(a) Cumulative convertible preference shares
(b) Non-cumulative non-participating preference shares
(c) Participating convertible preference shares
(d) Non-cumulative participating preference shares

9. Which of the following statements is incorrect regarding the start-up India scheme? 1
(a) A start-up under the start-up India initiative must be incorporated or registered in India
(b) A start-up can only be a public limited company to qualify under the scheme
(c) A start-up should have a turnover not exceeding 25 crore for any of the financial years since incorporation
(d) A start-up must focus on innovation, development or improvement of products or processes

10. ABC Pvt. Ltd., a leading toy manufacturer, recently expanded its production capacity. To ensure seamless distribution and efficient marketing, they partnered with several wholesalers. These wholesalers purchased toys in bulk, stored them in their warehouses and distributed them to retailers across the country. Despite seasonal variations in demand, the wholesalers ensured that ABC Pvt. Ltd.'s production process continued without interruption by consistently placing large orders and storing the surplus stock. 1
Additionally, they provided the company with valuable insights about consumer preferences, helping the manufacturer align its product designs with market trends. How do wholesalers help manufacturers to ensure continuity in their production process?
(a) By producing goods on their behalf

(b) By storing goods and purchasing them as they are produced
(c) By directly selling goods to consumers
(d) By reducing manufacturing costs

11. "Small-scale industries (SSIs) in rural areas have emerged as a significant factor for local economic growth by generating employment, reducing migration to urban centers and utilising local resources effectively. These industries help in balancing regional develop-ment but may face challenges in terms of limited access to technology, finance and skilled labour." In light of the above statement, write the role of small-scale industries in rural areas. 3

OR

"Entrepreneurship is marked by innovation, risk taking and the ability to create opportunities. Entrepreneurs are often seen as catalysts for economic growth, fostering competition and employment. However, entrepreneurship also requires a keen understanding of market trends and customer needs, and it involves challenges related to funding, scalability and sustainability." In light of the above statement, discuss any three features of entrepreneurship development. 3

12. What is the difference between internal and external sources of raising funds? Explain 3

13. "Innovation is integral to MSME". Disscus giving reasons to your answer. 4

14. "Debentures are a popular means of raising long-term funds, characterised by fixed interest rates, transfer-ability and legal obligations to repay. Despite their advantages, they pose repayment risks to companies during financial crises." Based on the above statement, discuss the various characteristics of debentures. 4

OR

"Preference shareholders often hold a unique position in a company, benefitting from rights such as priority in dividend distribution and repayment of capital in liquidation. However, these rights also limit their influence on company management." In light of the above statement, list the two preferential rights enjoyed by preference shareholders compared to 4

equity shareholders.

15.	"Departmental stores offer a wide variety of goods under one roof, making them a convenient shopping destination for customers." State and explain any four merits of departmental stores that contribute to their popularity	4
16.	After completing MBA from IIM, Ahemdabad, Arun decided to enter into a start-up business. After analysing the market, he found that there is considerable scope in Food Delivery business. However, Arun is not sure of the ways in which he can finance his start-up. So, he consulted his friend, Saubhagya, who himself started a start-up one year back. Saubhagya suggested him a number of ways to finance the start-up. State any four ways to finance start-up, which were suggested by Saubhagya.	6
17.	"Retailers play a crucial role in the distribution chain by acting as a link between wholesalers, manufacturers and the end consumers." Explain the various services rendered by retailers to customers in ensuring the efficient flow of goods.	6
	OR	
	Discuss the various services that are provided by wholesalers to manufacturers.	6

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Name: _____ Sec: ____ Roll No.: ____

CODE-A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST-3 : (2025-2026)
ECONOMICS(030)
CLASS : XI

Time: 1½ Hrs. **Maximum Marks : 40**

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General Instructions :

1) This paper contains 10 Multiple Choice Questions type questions of 1mark each.

2) This paper contains 2 Short Answer Questions type questions of 3 marks each to be answered in 60 to 80 words.

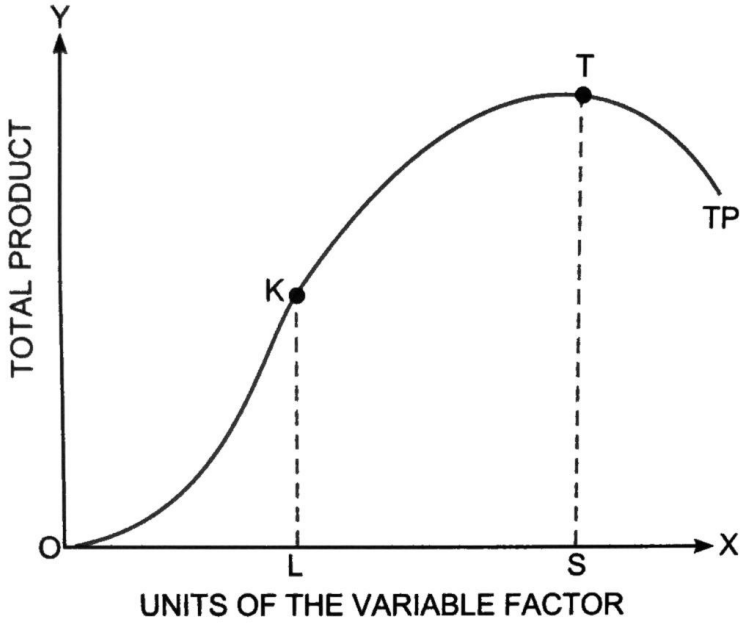
4) This paper contains 3 Short Answer Questions type questions of 4 marks is to be answered in 80 to 100 words

5) This paper contains 1 Long Answer Questions type questions and 1 case based question of 6 marks each to be answered in 100 to 150 words.

6) All questions are compulsory.

==========

1. On the basis of the above diagram answer the following question:- **1**



The slope of TP initially_____ and then _____.
a. rises, falls b. falls, rises
c. falls, remains constant d. none of these

2. TVC increases at a diminishing rate because of _____. **1**
a. increasing returns to a factor
b. Diminishing returns to a factor
c. Constant returns to a factor
d. All of the above

3. Find the missing figures and choose the correct alternatives:- **1**

Output(Q)	Price	TR
5	24	…
6	…	90
7	12	…
8	…	80

a. 10, 84, 15, 120
b. 24, 90, 12, 80
c. 120, 15, 10, 84
d. 120, 15, 84, 10

4. Read the following statements carefully. **1**
Statement 1: Equality of MC and MR ensures equilibrium.
Statement 2: The vertical gap between TR and TC is maximum when equilibrium condition of MR-MC approach are satisfied.

In light of the given statements, choose the correct alternative from the following:
a. Statement 1 is true and Statement 2 is false
b. Statement 1 is false and Statement 2 is true
c. Both statements are true
d. Both statements are false

5. What will be the impact of the following news on the supply curve of water? **1**

a. Supply curve shifts to the right
b. Supply curve shifts to the left
c. Upward movement along supply curve
d. Downward movement along supply curve

6. When elasticity of supply is equals to 1.6, supply is:- **1**

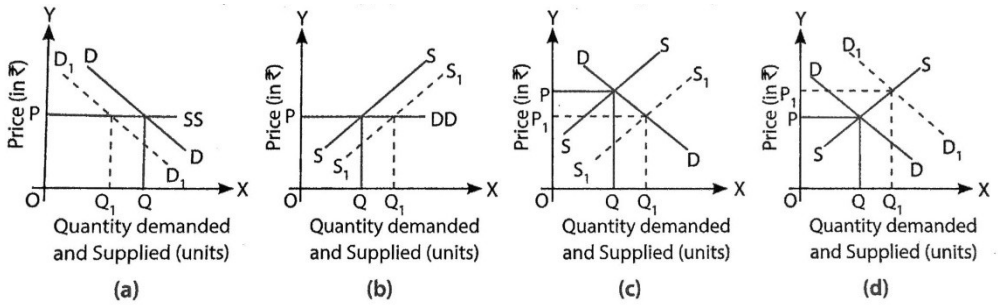
a. Perfectly elastic
b. Perfectly inelastic
c. Elastic
d. Inelastic

7. Read the following statements carefully. **1**
Statement 1: A perfectly competitive firm faces are downward sloping demand curve.
Statement 2: All firms in a perfectly competitive industry produce homogeneous product.

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

8. Choose the correct option, when supply increases and demand is perfectly elastic:- **1**



9. Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:- **1**

Assertion(A)- In case, number of items in series is very large, mode is appropriate measure of Central Tendency.

Reason(R)- When number of items is very large, calculating arithmetic mean is difficult.

Alternatives:

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

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

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

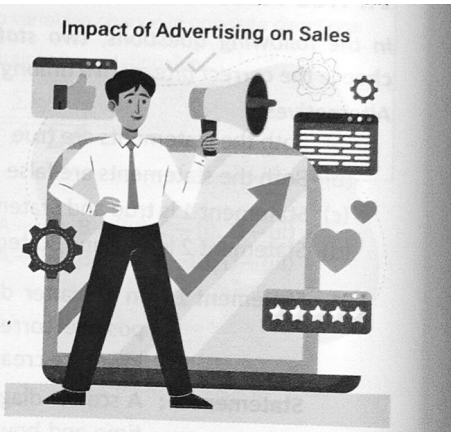
d. Assertion (**A**) is false but Reason(**R**) is true.

10. Analyse the situation depicted below and answer the question that follows:- **1**

A company is analysing the relationship between the amount of money spent on advertising and its monthly sales. The following data is observed over a period of 6 months:-

Month-wise Data on Advertising Spend (in ₹ '000) and Sales (in ₹ '000):

Month	Advertising Spend (X)	Sales (Y)
1	50	500
2	60	600
3	70	700
4	80	800
5	90	900
6	100	1000



Based on the data above, what can be concluded about the degree of correlation between advertising spend and sales?

a. Perfect positive correlation
b. No correlation
c. Limited degree of correlation
d. Perfect negative correlation

11. State the behaviour of Marginal Product in the law of variable proportions. Explain the causes of this behaviour. **3**

OR

In case of electricity which is sold by the government at a subsidized price, how can the government lower its losses without lowering the subsidy?

12. Explain the implication of the conditions of equilibrium of a producer. **3**

13. A firm earns a revenue of ₹50 when the market price of a good is ₹10. The market price increases to ₹15 and the firm now earns revenue of ₹150. What is the price elasticity of the firm's supply curve. **4**

14 Calculate mode from the following data:- **4**

Weight(kg)	**93-97**	**98-102**	**103-107**	**108-112**	**113-117**	**118-122**	**123-127**	**128-132**
No.of student	2	5	12	17	14	6	3	1

15 Following information is given about a firm:- **4**

Output:-	0	1	2	3	4	5	6

TC	400	550	660	790	940	1150	1460

Find out:-

I. The average fixed cost of producing 4 units.

II. The average variable cost of producing 5 units.

III. The least average cost level of output.

IV. The marginal cost of producing the 3rd unit.

16. Calculate the correlation coefficient of the below listed data, using shortcut method. **6**

X	10	20	30	40	50
Y	2	4	6	8	10

OR

In a fancy dress competition, two judges accorded following ranks to the seven participants:-

Contestant	Judge X	Judge Y
A	3	5
B	2	3
C	4	1
D	5	7
E	7	6
F	6	4
G	1	2

17. Read the following case study carefully and answer the questions on the basis of the same:

Laws that the government enact to regulate prices are called price controls. Price controls come in two flavors. A price ceiling keeps a price from rising above a certain level (the "ceiling"), while a price floor keeps a price from falling below a given level (the "floor"). A price ceiling is a legal maximum price that one pays for some good or service. A government imposes price ceilings in order to keep the price of some necessary goods or services affordable. For example, in 2005 during Hurricane Katrina, the price of bottled water increased above $5 per gallon. As a result, many people called for price controls on bottled water to prevent the price from rising so high. A price floor is the lowest price that one can legally pay for some good or service. Perhaps the best-known example of a price floor is the minimum wage, which is based on the view that someone working full time should be able to afford a basic standard of living. The federal minimum wage in 2016 was $7.25 per hour, although some states and localities have a higher minimum wage. The federal minimum wage yields an annual income for a

single person of $15,080, which is slightly higher than the Federal poverty line of $11,880. As the cost of living rises over time, the Congress periodically raises the federal minimum wage.

-https://opentextbc.ca/principlesofeconomics2eopenstax/chapter/price-ceilings-and-price-floors/

3
3

a. What is maximum price ceiling? Explain its implications.
b. What is minimum price ceiling? Explain its implications.

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Name: _____ Sec: ____ Roll No.: ____

CODE-B

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST-3 : (2025-2026)
ECONOMICS(030)
CLASS : XI

Time: 1½ Hrs. **Maximum Marks : 40**

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General Instructions :

1) This paper contains 10 Multiple Choice Questions type questions of 1mark each.

2) This paper contains 2 Short Answer Questions type questions of 3 marks each to be answered in 60 to 80 words.

4) This paper contains 3 Short Answer Questions type questions of 4 marks is to be answered in 80 to 100 words

5) This paper contains 1 Long Answer Questions type questions and 1 case based question of 6 marks each to be answered in 100 to 150 words.

6) All questions are compulsory.

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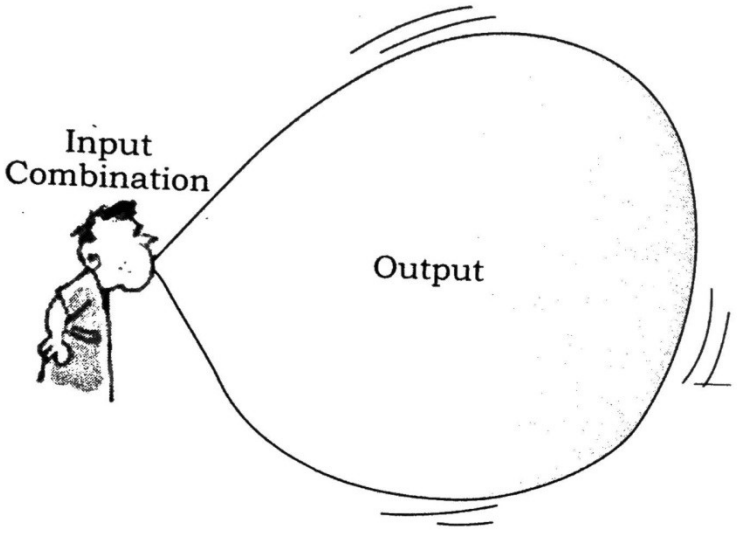
1. What does the image given below indicates? **1**



a. Production
b. Production Function
c. Output projection
d. None of the above

2. When marginal revenue is zero, _____ **1**

a. Total revenue is also zero
b. Total revenue is the maximum
c. Total revenue is the minimum
d. Total revenue starts increasing sharply

3. From the set of statements given in column I and column II, choose the correct pair of statements: **1**

Output	**TVC**	**AVC**
1	25	…
2	…	15
3	48	…
4	…	18

Alternatives:-
a. 25, 30, 16, 72
b. 25, 30, 48, 72
c. 25, 35, 16, 72
d. 25, 45, 16, 72

4. Read the following statements carefully. **1**
Statement 1: A firm always earns profit at the equilibrium point.
Statement 2: Break even points are always points of normal profits.
In light of the given statements, choose the correct alternative from the following:

a. Statement 1 is true and Statement 2 is false
b. Statement 1 is false and Statement 2 is true
c. Both statements are true
d. Both statements are false

5. Read the source carefully and answer the question:- **1**

Supply is a flow concept in nature, however, at times, supply is affected by unexpected shocks. Year 2020 has been unpredictable. Sudden outbreak of coronavirus in India, majorly impacted the suppliers. Lockdown imposed by the government led to fall in employment and production activities at large. Even after few restrictions lifted by the government production activities did not get back to normal due to fall in demand caused by rising unemployment. On the other hand, few sellers/producers producing safety equipment's experienced a surge in production and selling activities.

During initial phase of the pandemic, masks and sanitizers were sold at higher price.
What would be the impact on the supply?

a. Upward movement along supply curve
b. Download movement along supply curve
c. Rightward shift in supply curve
d. Leftward shift in supply curve

6. When the price of a good does not change but the quantity supplied changes:- **1**
It is called

a. Unit elastic supply
b. Perfectly elastic supply
c. Perfectly inelastic supply
d. Elastic supply

7. Read the following statements carefully. **1**
Statement 1: Price floor leads to shortage of demand in the market.
Statement 2: With increase in the number of supplies in the market, equilibrium price increases.
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

8. ***"Fuel for Thought:- Oil market ponders price floor amid demand destruction."*** **1**

What is the likely impact of this news headline on the quantity supplied in the market?

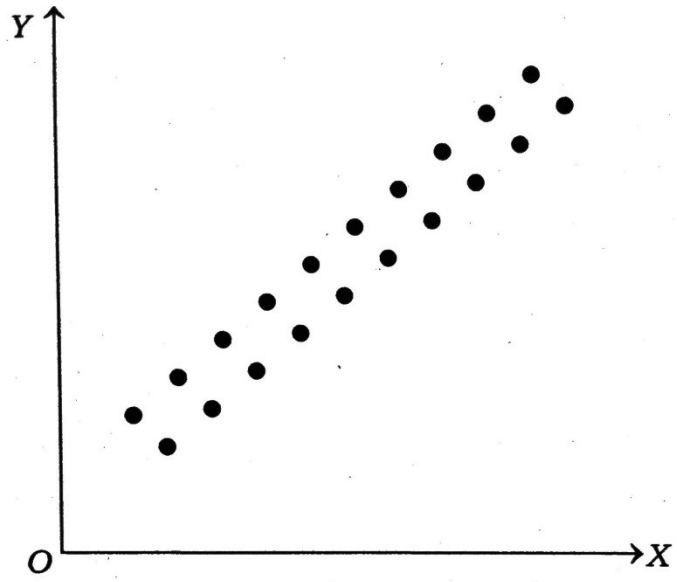
a. Shortage of supply
b. Surplus of supply
c. No change in supply
d. Either (a) or (b)

9. Read the following statements-Assertion(A) and Reason(R). Choose one of the correct alternatives given below:- **1**

Assertion(A)- Mode is the measure of Central Tendency used to measure mostly the qualitative data.
Reason(R)- Arithmetic Mean and Median are not useful in case of qualitative 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.

10. The given diagram represents:- **1**



a. Perfect positive correlation
b. High degree of positive correlation
c. Moderate degree of positive correlation
d. Low degree of positive correlation

11. Giving reasons, state whether the following statements are true or false:- **3**

I. When there are diminishing returns to a factor, marginal and total product both always falls.

II. When there are diminishing returns to a factor, total product always decreases.

OR

Draw average revenue and marginal revenue curves under perfect competition with explanation.

12. ***Marginal cost curve cannot slope downward at the profit maximizing output level.*** **3**
Show diagrammatically with explanation.

13. A firm supplies 10 units of a good at a price of rupees 5 per unit. Price elasticity of supply is 1.25. What quantity will the firm supply at a rise of rupees 7 per unit? **4**

14 From the following data, determine the mode by grouping method:- **4**

Size:	4	5	6	7	8	9	10
Freq.-	6	5	7	2	3	7	3

15 State the relation between total cost and marginal cost with diagram. **4**

16. Calculate coefficient of correlation based on assumed value of the following series:- **6**

X:	6	9	12	15	18	21	24
Y:	8	14	16	18	20	28	36

OR

Explain the scatter diagram method of correlation.

17. Read the following case study carefully and answer the questions on the basis of the same:

The existence of a large number of buyers and sellers means that each individual buyer and seller is very small compared to the size of the market. This means that no individual buyer or seller can influence the market by their size. Homogeneous products further mean that the product of each firm is identical. So a buyer can choose to buy from any firm in the market, and she gets the same product. Free entry and exit mean that it is easy for firms to enter the market, as well as to leave it.

-NCERT, 2023-24

a. Explain the features of perfect competition. Why is the demand curve facing a farm under perfect competition perfectly elastic. **3**

b. ***A firm under perfect competition is a price maker.*** Comment. **3**

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Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST 3: (2025-2026)
GEOGRAPHY
CLASS: XI

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

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General Instructions:

i. Question number 1 to 7 are MCQ type questions.
ii. Question 8 and 9 are Source based questions.
iii. Question number 10-13 are Short Answer type questions (80-100 words).
iv. Question number 14 and 16 are Long Answer based questions (120-150 words).

==========

1 **Which one of the following statements is incorrect regarding the presence of water vapour in the atmosphere?** 1

a. Water vapour decreases from the equator towards the poles.
b. Water vapour acts like a blanket allowing the earth neither to become too cold nor too hot.
c. Water vapour increases with altitude
d. Water vapour contributes to the stability and instability in the air.

2 **Two statements are given below. They are Assertion (A) and Reason (R). Read them carefully and choose the correct option.** 1

Assertion (A)- On an average the earth receives 11.94 calories per sq. cm per minute of solar energy at the top of the atmosphere.

Reason (R)- On 3rd January, the earth is the nearest to the sun which is known as perihelion.

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

3 Which one of the following is not a factor controlling temperature of air? 1

a. The altitude
b. Air-mass and ocean currents
c. Distance from the sea
d. Normal lapse rate

4 **Identify the type of cloud with the given clues.** 1

I. They are generally formed at a height of 4000 – 7000m.
II. They have a flat base.
III. They look like cotton wool

Options

a. Cirrus
b. Cumulus
c. Stratus
d. Nimbus

5 **Match Column-I with Column-II and choose the correct option**: 1

Column-I	**Column-II**
I. Loo	i. coffee flowers bloom
II. Mango showers	ii. Kalbaisakhi
III. Nor westers	iii. Pre- monsoon showers
IV. Blossom showers	iv. Hot, dry, oppressing winds

OPTIONS

a) I- i II- iii III- iv IV- ii
b) I-ii II- i III- iv IV- iii
c) I-iii II- iv III- ii IV- i
d) I-iv II- iii III- ii IV- i

6 Which one of the following is not a fact regarding South India? 1

a. Diurnal range of temperature is less here.

b. Annual range of temperature is less here.

c. Temperatures here are high throughout the year.

d. Extreme climatic conditions are found here.

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

Assertion (A)- The southern plateau of India remains dry during June- September.

Reason (R)- It remains dry due to its windward situation along the Western Ghats.

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

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

8 **Read the given passage carefully and answer the questions that follow:**

Tropical cyclones are violent storms that originate over oceans in tropical areas and move over to the coastal areas bringing about large scale destruction caused by violent winds, very heavy rainfall and storm surges. This is one of the most devastating natural calamities. They are known as Cyclones in the Indian Ocean, Hurricanes in the Atlantic, Typhoons in the Western Pacific and South China Sea, and Willy-willies in the Western Australia.

The eye is a region of calm with subsiding air. Around the eye is the eye wall, where there is a strong spiralling ascent of air to greater height reaching the tropopause. The wind reaches maximum velocity in this region, reaching as high as 250 km per hour. Torrential rain occurs here. From the eye wall rain bands may radiate and trains of cumulus and cumulonimbus clouds may drift into the outer region. The diameter of the storm over the Bay of Bengal, Arabian sea and Indian ocean is between 600 - 1200 km. The system moves slowly about 300 - 500 km per day. The cyclone creates storm surges and they inundate the coastal low lands. The storm peters out on the land.

i. Tropical cyclones are known by what name in Australia? 1

ii. Mention any one condition for the formation and intensification of tropical cyclones? 1

iii. What do you mean by eye of a cyclone? 1

9 **Read the given passage carefully and answer the questions that follow:**

Climate has also witnessed change in the past at the global as well as at local levels. It is changing even now but the change is imperceptible. A number of geological evidences suggest that once upon a time, large part of the earth was under ice cover. Now you might have read or heard the debate on global warming. Besides the natural causes, human activities such as large scale industrialisation and presence of polluting gas in the atmosphere are also important factors responsible for global warming. You might have heard about the "green house effect" while discussing global warming. The temperature of the world is significantly increasing. Carbon dioxide produced by human activities is a major source of concern. This gas, released to the atmosphere in large quantities by burning of fossil fuel, is increasing gradually. Other gases like methane, chlorofluorocarbons, and nitrous oxide which are present in much smaller concentrations in the atmosphere, together with carbon dioxide are known as green house gases. These gases are better absorbers of long wave radiations than carbon dioxide, and so, are more effective at enhancing the green house effect. These gases have been contributing to global warming. It is said that due to global warming the polar ice caps and mountain glaciers would melt and the amount of water in the oceans would increase.

i. What are the major greenhouse gases mentioned in the passage? 1

ii. How does the rise in global temperature affect glaciers and sea levels? 1

iii. Suggest any one measure to reduce global warming. 1

10	What are the different ways of heating and cooling of the atmosphere? Explain. **OR** Explain any three factors that causes variations in insolation.	3
11	Describe the temperature structure of oceans over middle and low latitudes.	3
12	What are the three main reasons for the excessive cold in north India during the cold weather season?	3
13	"Despite an overall unity in the general pattern, there are perceptible regional variations in climatic conditions of India". Explain with examples.	3
14	Describe the structure of the atmosphere with the characteristic features of different layers.	5
15	What are the different forms of water vapour after condensation? Describe the process of dew and frost formation. **OR** What are clouds? Classify and explain them.	5
16	Explain how monsoon effects the economic life in India.	5

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Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST 3: (2025-2026)
GEOGRAPHY
CLASS: XI

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

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General Instructions:

- ***i. Question number 1 to 7 are MCQ type questions.***
- ***ii. Question 8 and 9 are Source based questions.***
- ***iii. Question number 10-13 are Short Answer type questions (80-100 words).***
- ***iv. Question number 14 and 16 are Long Answer based questions (120-150 words).***

==========

1 **Which one of the following statements is incorrect regarding composition of the atmosphere?** 1

a. Atmosphere is composed of gases, water vapour and dust particles.
b. The proportion of gases changes in the higher layers of the atmosphere.
c. Oxygen will be almost in negligible quantity at the height of 120 km.
d. Carbon dioxide and water vapour are found only 90 km above the surface of the earth.

2 **Two statements are given below. They are Assertion (A) and Reason (R). Read them carefully and choose the correct option.** 1

Assertion (A)- The Earth as a whole does not accumulate or loose heat.

Reason (R)-The amount of heat received in the form of insolation equals the amount lost by the earth through terrestrial radiation.

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

3 The sun is directly overhead at noon on 21st June at 1

a. The equator
b. 23.5° S
c. 23.5° N
d. 66.5° S

4 **Identify the type of cloud with the given clues.** 1

I. These clouds are black or dark grey.
II. They form at middle levels or very near to the surface of the earth.
III. These are extremely dense and opaque to the rays of the sun.

Options

a. Cirrus
b. Cumulus
c. Nimbus
d. Stratus

5 **Match Column-I with Column-II and choose the correct option**: 1

	Column-I	**Column-II**
I.	Areas of inadequate rainfall	i. Western Ghats, hills of Meghalaya
II.	Areas of low rainfall	ii. Northern Ganga plain
III.	Areas of medium rainfall	iii. Western Uttar Pradesh, Eastern Rajasthan
IV.	Areas of high rainfall	iv. Ladakh, western Rajasthan

OPTIONS

a) I- i II- iii III- iv IV- ii
b) I-iv II- iii III- ii IV- i
c) I-ii II- i III- iv IV- iii
d) I-iii II- iv III- ii IV- i

6 What causes rainfall on the coastal areas of Tamil Nadu in the beginning of winters? 1

a. South- West monsoon
b. Temperate cyclones
c. North- Eastern monsoon
d. Local air circulation

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

Assertion (A)- Tamil Nadu coast remains dry during the monsoon season.

Reason (R)- It is situated parallel to the Bay of Bengal branch of south-west monsoon.

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

8 **Read the given passage carefully and answer the questions that follow:**

General Atmospheric Circulation and its Effects on Oceans

Warming and cooling of the Pacific Ocean is most important in terms of general atmospheric circulation. The warm water of the central Pacific Ocean slowly drifts towards South American coast and replaces the cool Peruvian current. Such appearance of warm water off the coast of Peru is known as the El Nino. The El Nino event is closely associated with the pressure changes in the Central Pacific and Australia. This change in pressure condition over Pacific is known as the southern oscillation. The combined phenomenon of southern oscillation and El Nino is known as ENSO. In the years when the ENSO is strong, large-scale variations in weather occur over the world. The arid west coast of South America receives heavy rainfall,

drought occurs in Australia and sometimes in India and floods in China. This phenomenon is closely monitored and is used for long range forecasting in major parts of the world.

i. Name one cold ocean current. 1

ii. What do you mean by ENSO? 1

iii. How the weather changes due to strong ENSO? 1

9 **Read the given passage carefully and answer the questions that follow:**

The summer months are a period of excessive heat and falling air pressure in the northern half of the country. Because of the heating of the subcontinent, the ITCZ moves northwards occupying a position centred at 25°N in July. Roughly, this elongated low pressure monsoon trough extends over the Thar desert in the north-west to Patna and Chotanagpur plateau in the east-southeast. The location of the ITCZ attracts a surface circulation of the winds which are southwesterly on the west coast as well as along the coast of West Bengal and Bangladesh. They are easterly or southeasterly over north Bengal and Bihar. These currents of southwesterly monsoon are in reality 'displaced' equatorial easterlies. The influx of these winds by mid-June brings about a change in the weather towards the rainy season.

In the heart of the ITCZ in the northwest, the dry and hot winds known as 'Loo', blow in the afternoon, and very often, they continue to well into midnight. Dust storms in the evening are very common during May in Punjab, Haryana, Eastern Rajasthan and Uttar Pradesh. These temporary storms bring a welcome respite from the oppressing heat since they bring with them light rains and a pleasant cool breeze. Occasionally, the moisture-laden winds are attracted towards the periphery of the trough. A sudden contact between dry and moist air masses gives rise to local storms of great intensity. These local storms are associated with violent winds, torrential rains and even hailstorms.

i. What causes the development of low pressure in summer? 1

ii. What brings temporary relief from the extreme heat in the hot weather season? 1

iii. What do you mean by 'Loo'? 1

10	Explain any three factors controlling the temperature of air.	3
	OR	
	What do you mean by aphelion and perihelion? How the temperature changes in case of inversion of temperature in the atmosphere?	
11	What are the different factors affecting salinity of ocean water?	3
12	Explain any three factors that determine the climate of India.	3
13	What is meant by 'bursting of monsoon'? Name the place of India which gets the highest rainfall.	3
14	Describe the structure of the atmosphere with the characteristic features of different layers.	5
15	What do you mean by precipitation? Explain any four forms of precipitation.	5
	OR	
	Classify rainfall on the basis of origin. Explain them.	
16	Mention any three characteristic features of monsoon season in India. Why the Tamil Nadu coast remains dry during this season?	5

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Name: _____ Sec: ____ Roll No.: ____

CODE: A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST - III (2025– 2026)
PHYSICAL EDUCATION
CLASS: XI

Time: 1½ Hours **Maximum Marks: 40**

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General Instructions:

1. The question paper contains 21questions.
2. Section A Question 1 to 7 carry 01 mark each and are Multiple Choice Questions ***(All the question are compulsory)***
*3. Section B Question 8 to 13 carry 02 marks each and shall not exceed 40 to 60 words****(Attempt any 5)***
*4. Section C Question 14 to 17 carry 03 marks each and shall not exceed 80 to 100 words****(Attempt any 3)***
5. Section D Question No.18 case based question carries 4 marks.
*6. Section E Question 19 to 21 carry 05 marks each and shall not be exceed 150 - 200 words****(Attempt any 2)***

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SECTION -A (Choose the correct option:)

1. By whom the Sit and Reach Test was developed? 1

   a)Wells & Dillon b)Brouha and others c) Guilford & Murphy d) John Copper

2. How many bones are there in our lower limbs? 1

   a) 60 b) 62 c) 64 d) 66

3. Which of the following is not the type of synovial joints? 1

   a) Hinge Joints b)Condyloid Joins
   c)Symphysis joints d)Saddle Joints

4. The term flexion refers to: 1
   a) Straightening b) Turning c) Twisting d) Bending

5. When a person performs a cartwheel he is rotating about the: 1
   a) Frontal axis b) Vertical axis
   c)Sagittal axis d) None of these

6. "Psychology is the science of human behaviour." whose statement is it? 1
a)Watson b) Woodworth c) Singer d) Pillsbury.

7. In which stage of team cohesion victories are celebrated? 1
a) Forming b) Performing c) Norming d) Storming

Section-B (Answer the following Questions:)

8 Short note about Harvard step test. 2

9 Write a short note about ball and socket joint. 2

10 What do you mean by anatomy and physiology? 2

11 Discuss any two principles of biomechanics. 2

12 How does sports psychology help in controlling emotions during sports competitions? 2

13 Write a short note about childhood stage. 2

Section C (Answer the following questions:)

14 Explain any three importance of test, measurement and evaluation. 3

15 How is the study of Kinesology helpful in sports?. Explain briefly. 3

16 Explain the skeleton system in details. 3

17 Discuss the importance of sports psychology in brief. 3

18 **Section D (Case based question:)**

Based on the Picture ,Answer the following questions:

(i) What is the formula used to calculate BMI? 1

a) Weight × Height b) Weight ÷ Height

c) Weight (kg) ÷ Height $(m)^2$ d) Height ÷ Weight

(ii) Which measuring tools are required to calculate BMI? 1

a) Stopwatch and measuring tape b) Weighing scale and stadiometer

c) Thermometer and barometer d) Scale and ruler

(iii) According to WHO standards, the boy's BMI category will be: 1

a) Underweight b) Normal weight

c) Overweight d) Obese

(iv) Which component of physical fitness does BMI primarily measure? 1

a) Muscular strength b) Cardiovascular endurance

c) Flexibility d) Body composition

Section E (**Answer the following questions:)**

19 Describe the properties and functions of muscles. 5

20 Explain the importance of biomechanics in sports. 5

21 Discuss the role of parents in the management of problems of adolescence. 5

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Name: _____ Sec: ____ Roll No.: ____

CODE: B

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST - III (2025– 2026)
PHYSICAL EDUCATION (048)
CLASS: XI

Time: 1½ Hrs. **Maximum Marks: 40**

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General Instructions:-

1. *The question paper consists of 5 sections and 21 questions.*
2. *Section A Consists of question 1-7 carrying 1 mark each and is multiple choice questions. All questions are compulsory.*
3. *Section B consists of questions 8-13 carrying 2 marks each and are very short answer types and should not exceed 60-90 words. Attempt any 5.*
4. *Section C consists of questions 14-17 carrying 3 marks each and are short answer types and should not exceed 100-150 words. Attempt any 3.*
5. *Section D consist of questions no.18 carrying 4 marks and are case studies.*
6. *Section E consists of questions 19-21 carrying 5 marks each and are short answer types and should not exceed 200-300 words. Attempt any 2.*

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SECTION-A

[All questions are compulsory]

Q.1. High Waist-Hip ratio indicates: 1

A) Better endurance
B) Higher risk of Cardiovascular diseases
C) Stronger muscles
D) Low body fat

Q.2. Muscles that work according to the desire of a person are called: 1

A) Smooth muscles
B) Voluntary muscles
C) Involuntary muscles
D) None of these

Q.3. Given below are the two statements labelled as Assertion (A) and Reason (R). 1

Assertion:- Fast-twitch muscle fibers help in explosive activities.

Reason (R):- Fast-twitch fibres fatigue slowly.

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 and 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. Identify the picture: 1

A) Adduction

B) Extension

C) Flexion

D) Abduction

Q.5. The point where the entire body weight is concentrated is called: 1

A) Axis of rotation

B) Center of gravity

C) Pivot point

D) Center of pressure

Q.6. Match List-I with List-II and select the correct options: 1

List-I		List-II
a) Intrinsic motivation	(i)	Rewards or prizes
b) Extrinsic motivation	(ii)	Internal satisfaction
c) Anxiety	(iii)	Worry or fear
d) Aggression	(iv)	Act of hostility

	a	b	c	d
A.	ii	iii	iv	i
B.	ii	i	iii	iv
C.	ii	i	iv	iii
D.	ii	iv	i	iii

Q.7. A state of balance mental health during performance is called: 1

A) Stress
B) Anxiety
C) Motivation
D) Sports psychology

SECTION-B
(Attempt any 5 questions)

Q.8. What do you mean by Test and Measurements? 1+1

Q.9. Name the longest and the shortest bones in the body. 1+1

Q.10. What are the four major functional properties of muscles? ½×4=2

Q.11. What do you mean by Biomechanics and Kinesiology? 1+1

Q.12. What do you mean by psychology and sports psychology? 1+1

Q.13. How important is for a sports team to develop team cohesion? 2

SECTION-C
(Attempt any 3 questions)

Q.14. Explain the three types of Somato body types. 3

Q.15. Write any three functions of skeletal system. 3

Q.16. List down principles of biomechanics and explain any two in detail. 3

Q.17. What is the age range of early adolescence? Write few emotional changes seen during adolescence. 3

SECTION-D

Q.18 On the basis of the picture given below, answer the following questions: 1×4

i) BMI is used to assess:
   A) Cardiorespiratory fitness
   B) Body fat based on height and weight
   C) Flexibility level
   D) Muscular strength

ii) A BMI value of 18.5-24.9 is considered:
   A) Underweight
   B) Normal
   C) Overweight
   D) Obese

iii) BMI does NOT measure:
   A) Body fat percentage
   B) Weight
   C) Height
   D) Health risk

iv) Suppose a person has a body weight of 100 kg and height 1.70 m. His BMI indicates:
   A) Normal
   B) Overweight
   C) Obesity
   D) Underweight

SECTION-E
(Attempt any 2 questions)

Q.19. How do Anatomy and Physiology help in improving sports performance? Explain with suitable examples. 5

Q.20. Describe various types of body movements in joints with the help of examples. 5

Q.21. Adolescence is considered a period of stress and strain. Justify this statement by highlighting various challenges faced by adolescents and recommended effective management strategies. 2 ½ ×2 ½

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NAME_____SEC_____ROLL NO _____

CODE:A

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST-III :[2025-2026]
INFORMATION TECHNOLOGY (802)
CLASS: XI

TIME: 1 ½ Hrs. **Maximum Marks:40**

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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 (20 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 (20 MARKS):**
   i. This section contains 08 questions.
   ii. Do as per the instructions given.
   iii. Marks allotted are mentioned against each question/part.

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SECTION A: OBJECTIVE TYPE QUESTIONS

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

i. What is the shortcut key to use Spelling and Grammer option of Open Office Writer. 1

ii.	The word entrepreneur is taken from which country ?	1
iii.	Which shortcut key is used to create a new document? a.Ctrl+C b.Ctrl+N c.Ctrl+M d.Ctrl+D	1
iv.	_____ are qualities and principles which make a person think and act in a certain noble way. a.Freedom b.Values c.Tolerance d.Attitude	1
v.	_____ feature in Open Office Writer can be used to find a particular word or text in a document and replace it with another word or text. a.Change Case b.Word Wrap c.Find and Replace d.Header	1
vi.	_____ is the process of thinking how to solve a specific problem faced by entrepreneurs to improve their business. a.Problem-Solving b.Values c.Tolerance d.Attitude	1
vii.	**_____**is the text that is printed at the top of every page in a document.	1
viii.	**_____** is a business in which raw material is converted into a finished product as per the customer's demand.	1
ix.	Track Changes in a document means to keep a record of the changes made in a document. [TRUE OR FALSE]	1
x.	Services are tangible and can be stored. [TRUE OR FALSE]	1
2.	**Answer the following 9 questions on (1 x 9= 9marks)**	
i.	What is the fullform of IDE in Java Netbeans?	1
ii.	What is the fullform of POP?	1

iii. _____ allows editing/displaying of a single line of text. 1

a.jLabel b.jTextField
c.jButton d.jRadioButton

iv. _____ are network devices that amplify or regenerate an incoming signal before re-transmitting. 1

a.Hub b.Switch
c.Repeater d.Bridge

v. The default echo character in jPassword is _____. 1

a.plus(+) b.hash(#)
c.asterisk(*) d.dollar($)

vi. _____ type of virus infects word, excel, powerpoint, access and other data files. 1

a.File virus b.Macro virus
c.Boot sector virus d.Stealth virus

vii. Using fake email messages to get personal information from internet user is called _____. 1

viii. _____ are properties that represent the state of an object. 1

ix. A cookie is a small piece of information about the client browsing a website .[TRUE OR FALSE] 1

SECTION B: SUBJECTIVE TYPE QUESTIONS

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

3. Mention the four sub-menus of Change Case option in a text. 2

4. What is an Enterprise ? 2

5. Mention any four values that make an entrepreneur successful. 2

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

6.	What is Digital Footprint?	2
7.	Define Inheritance in Java.	2

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

8.	Explain three types of Access specifiers used in Java.	3

Answer the following 2 questions
(4 x 2 = 8 marks)

9.	(i) What is firewall? (ii) What is Antivirus?	4
10.	Write a program in Java using GUI application to accept the cost price and selling price of a product from the user in two text boxes and calculate the profit or loss incurred and display the result in third text box.	4

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NAME_____SEC_____ROLL NO _____

CODE:B

BURNPUR RIVERSIDE SCHOOL, BURNPUR
PERIODIC TEST-III :[2025-2026]
INFORMATION TECHNOLOGY (802)
CLASS: XI

TIME: 1 ½ Hrs. **Maximum Marks:40**

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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 (20 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 (20 MARKS):**
   - **i.** This section contains 08 questions.
   - **ii.** Do as per the instructions given.
   - **iii.** Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

1.	**Answer the following 10 questions on Employability Skills (1 x 10 = 10 marks)**	
i.	What is Format Painter?	1
ii.	What is Perseverance mean?	1
iii.	A _____ wavy line indicates a misspelled word . a.blue b.green c.red d.yellow	1
iv.	A business which does not sells any product is ____ business. a.Trading b.Service c.Manufacturing d.none	1
v.	A numbered list is also called _____ list. a.parallel b.unordered c.ordered d.random	1
vi.	_____ is defined as a set of beliefs, emotions and behaviour towards a particular place, object, person, situation, event, ideas or thing. a.Attitude b.Problem-solving c.Perseverance d.none	1
vii.	_____ case changes lowercase characters to uppercase and uppercase characters to lowercase.	1
viii.	_____ is an important attribute in an entrepreneur especially he/she achieve success.	1
ix.	Tables in a document can be used to display information in a tabular for. [TRUE OR FALSE]	1
x.	Customer survey is an exercise that entrepreneurs do to understand whether there is a market for their product or not. [TRUE OR FALSE]	1
2.	**Answer the following 9 questions on (1 x 9= 9marks)**	
i.	What is GUI Builder?	1
ii.	In which topology each node is connected to every other node in the network?	1

iii. In NetBeans, parent controls are also known as _____. 1

a.parent area b.swing area
c.swing containers d.swing controls

iv. In _____ topology all nodes are connected to its neighboring nodes using a cable in the form of ring. 1

a.Tree b.Ring c.Mesh d.Bus

v. ____ buttons are used to provide the user several choices and allow him to select one of the choices . 1

a.checkbox b.List c.Radio d.Label

vi. _____ is designed to extend over the entire city. 1

a.LAN b.MAN c.WAN d.PAN

vii. The fullform of IRTF is **_____.** 1

viii. A **_____** is a user defined datatypes from which objects are created with attributes and methods. 1

ix. WWW is a File transfer protocol. 1
[TRUE OR FALSE]

SECTION B: SUBJECTIVE TYPE QUESTIONS

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

3. What is the use of word wrapping feature in a word processor? 2

4. What is the difference between creativity and innovations? 2

5. What is Trading Business? 2

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

6. Name any two types of Guided Media in a network. 2

7. Define Encapsulation in Java. 2

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

8.	Give any three rules and conventions for naming variables in Java.	3

Answer the following 2 questions
(4 x 2 = 8 marks)

9.	(i)What is Worm? (ii)What is Trojan Horse?	4
10.	Write a program in Java using GUI application to accept the length and breadth of a rectangle from the user in two text boxes and calculate the perimeter and display the result in third text box.	4

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