

MODULUS SCHOLASTIC EVALUATION TEST**(NEET) SAMPLE PAPER**Time: **120 min**Exam Date: **27-09-2026**Maximum Marks: **240**

Name of the student: _____

School Name: _____

Contact Number(s): _____

Marks Obtained: _____ + _____ + _____ + _____ = _____
(IQ & B.M) (Biology) (Phy) (Chem) (Total)***Instructions to the Candidates*****A. General**

1. This booklet is your Question Paper containing 60 questions.
2. Blank papers, clipboards, log tables, slide rules, calculators, cellular phones, pagers and electronic gadgets in any form are not allowed to be carried inside the examination hall.
3. Fill in the boxes provided for Name, School and Contact No.
4. The answer sheet, a machine-readable Objective Response (ORS), is provided separately.
5. DO NOT TAMPER WITH / MULTILATE THE ORS OR THE BOOKLET.

B. Filling in the OMR:

6. The instructions for the OMR sheet are given on the OMR itself.

C. Question paper format:

7. The question paper consists of **4 Parts (Mental Ability & Basic Mathematics, Biology, Physics and Chemistry)**.
8. **Each Part** contains **15 Multiple Choice questions**. Each question has four choices (A), (B), (C) and (D) out of which **ONE** is correct.

9. D. Marking Scheme

10. For each question, you will be awarded **4 marks** if you darken the bubble corresponding to the correct answer **ONLY**. In all other cases **zero (0) marks** will be awarded. **-1 (1 negative) mark** will be awarded for incorrect answers in this section.

PART-I: MENTAL ABILITY & BASIC MATHEMATICS**Verbal:*****Alphabet Series***

1. FAG, GAF, HAI, IAH, _____
(A) JAK (B) HAL (C) HAK (D) JAI

Analogy

2. '4545' is to '18' as '9768' is to
(A) 45 (B) 30 (C) 35 (D) 28

Classification (Odd One Out)

3. Find the odd one out?
(A) PSRQ (B) CGEF (C) JMLK (D) VYXW

Direction Sense Test

4. A man leaves for his office from his house. He walks towards east. After walking a distance of 20 m, he turns south and walks 10 m. Then he walks 35 m towards the west and further 5 m towards the north. He then turns towards east and walks 15 m. What is the shortest distance (in m) between his initial and final positions?
(A) 15 (B) 5 (C) 10 (D) None of these

Rough Work

Logical & Statement-Conclusion Reasoning

5. Statements:

I. All engineers are readers.

II. Some readers are athletes.

Conclusions:

I. Some engineers are athletes.

II. Some athletes are readers.

Which conclusion(s) logically follows/follow?

(A) Only I

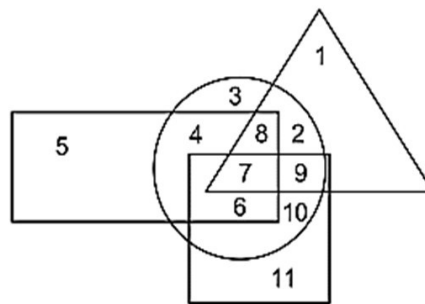
(B) Only II

(C) Both I and II

(D) Neither I nor II

Venn Diagrams

Directions: In the following figure, rectangle, square, circle and triangle represents the regions of wheat, gram, maize and rice cultivation respectively



6. Which area is cultivated by rice and maize and nothing else?

(A) 9

(B) 8

(C) 2

(D) 7

Rough Work

Ranking & Order

7. In a line of students, Neha is 14th from the front, and she is 13th from the back. How many students are in the line?
- (A) 26 (B) 27 (C) 28 (D) 25

Mathematical Operations (Symbol Substitution)

8. If A stands for +, B stands for -, C stands for $\times$, then what is the value of (10 C 4) A (4 C 4) B 6 ?
- (A) 46 (B) 50 (C) 55 (D) 60

Non-Verbal:**Mirror & Water Images**

9. Choose the alternative which is closely resembles the water-image of the given combination.
- RECRUIT
- (1) RECRUIT (2) RECRUIT
- (3) RECRUIT (4) RECRUIT
- (A) 1 (B) 2 (C) 3 (D) 4

Polynomials

10. The polynomial $x^3 + 2x^2 + Ax - 4$ when divided by $x - 2$ leaves remainder '20' then the remainder when it is divided by $x - 1$ is
- (A) 2 (B) -1 (C) 1 (D) 3

Rough Work

Geometry

11. If the distance between the points $(3,5)$ & $(k,k+4)$ is 2, then the sum of possible values of 'k' is
- (A) 1 (B) 4 (C) 6 (D) none of these

Quadratic Equations

12. The least integer value of 'm' such that the roots of the quadratic equation $x^2 + (2m+3)x + (m^2 + 2m + 9) = 0$ are real is
- (A) 6 (B) 7 (C) 8 (D) None of these

Arithmetic Progression

13. The sum of the terms in the two AP's $4, 8, 12, \dots, 32$ and $1, 3, 5, 7, 9, \dots, n$ are equal then the value of 'n' can be
- (A) 15 (B) 17 (C) 19 (D) 23

Trigonometry

14. If $\sin\theta\cos\theta = \frac{5}{6}$ then the value of $\tan\theta + \cot\theta$ is
- (A) $\frac{11}{6}$ (B) $\frac{6}{11}$ (C) $\frac{5}{6}$ (D) $\frac{6}{5}$
15. $3\sin\theta + 4\cos\theta = 2$ and $4\sin\theta - 3\cos\theta = K$, then the value of K^2 is
- (A) 25 (B) 23 (C) 21 (D) 29

Rough Work

PART-II: BIOLOGY***Life Processes***

16. Which blood vessel carries oxygenated blood from the lungs to the heart?
(A) Aorta (B) Vena cava
(C) Pulmonary vein (D) Pulmonary artery
17. What are the end products of anaerobic respiration in yeast?
(A) Carbon dioxide and water (B) Ethanol and Carbon dioxide
(C) Glucose and oxygen (D) Lactic acid and oxygen
18. Bile helps in the digestion of fats mainly by
(A) Emulsifying fats into smaller droplets
(B) Converting fats into glucose
(C) Converting fats into proteins
(D) Breaking fats into fatty acids
19. If salivary amylase is lacking in saliva, which of the event in the mouth will be affected?
(A) Proteins breaking down into amino acids
(B) Starch breaking down into sugars
(C) Fats breaking down into fatty acids and glycerol
(D) Absorption of vitamins
20. Which structure prevents food from entering the windpipe during swallowing?
(A) Epiglottis (B) Larynx (C) Diaphragm (D) Bronchus

Rough Work

21. Selective reabsorption in the nephron is important because it
(A) Produces glucose
(B) Removes all water from the blood
(C) Allows useful substances to return to the blood
(D) Prevents filtration of blood
22. Food prepared in leaves is transported to other parts of the plant through
(A) Xylem (B) Phloem (C) Stomata (D) Root hair
23. Why does the left ventricle have a thicker muscular wall than the right ventricle?
(A) It pumps blood to the lungs only
(B) It receives blood from the lungs
(C) It pumps blood to the entire body, requiring higher pressure
(D) It has to store more blood
24. During vigorous exercise, a person's muscles may experience cramps because
(A) Oxygen supply completely stops
(B) Lactic acid accumulates due to anaerobic respiration
(C) Glucose is not absorbed by the intestine
(D) Carbon dioxide cannot be transported
25. The various parts of the human respiratory system are given below
i) Nasal passage ii) Windpipe iii) Pharynx
iv) Bronchioles v) Bronchus vi) Alveoli
Identify the right sequence of air passage during inhalation
(A) i, iii, ii, v, iv, vi (B) i, iii, ii, iv, v, vi (C) i, ii, iii, iv, v, vi (D) i, ii, iv, iii, v, vi

Rough Work

Control and Coordination

26. A person accidentally touches a hot pan, the sequence below is observed
 $A \rightarrow B \rightarrow C \rightarrow D \rightarrow E$
If C is the spinal cord, which of the following could represent the sequence?
(A) Receptor $\rightarrow$ Motor neuron $\rightarrow$ Spinal cord $\rightarrow$ Sensory neuron $\rightarrow$ Muscle
(B) Skin $\rightarrow$ Brain $\rightarrow$ Spinal cord $\rightarrow$ Motor neuron $\rightarrow$ Muscle
(C) Receptor $\rightarrow$ Sensory neuron $\rightarrow$ Spinal cord $\rightarrow$ Motor neuron $\rightarrow$ Muscle
(D) Receptor $\rightarrow$ Sensory neuron $\rightarrow$ Brain $\rightarrow$ Spinal cord $\rightarrow$ Muscle
27. The number of cranial nerves present in humans is
(A) 12 pairs (B) 21 pairs (C) 13 pairs (D) 31 pairs
28. Rahul's blood test reveals a high glucose level of 182 mg/dL. His doctor suspects a deficiency in a particular hormone. Which hormone is likely deficient?
(A) Glucagon (B) Thyroxine (C) Adrenaline (D) Insulin

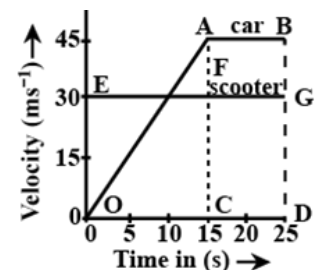
How Do Organisms Reproduce?

29. Asexual reproduction takes place through budding in
(A) Plasmodium (B) Yeast (C) Paramecium (D) Amoeba
30. The male reproductive part of the flower is
(A) Pistil (B) Stigma (C) Ovary (D) Stamen

Rough Work

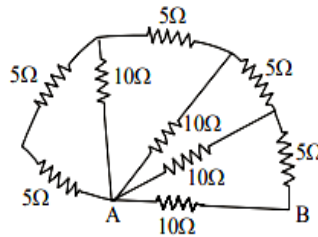
PART-III: PHYSICS**Kinematics**

31. A juggler keeps on moving four balls in the air throwing the balls after regular intervals. When one ball leaves his hand (speed = 20 m/s), the positions of other balls (height in m) (Take $g = 10 \text{ m/s}^2$)
 (A) 10, 20, 10 (B) 15, 20, 15 (C) 5, 15, 20 (D) 5, 10, 20
32. A parachutist drops first freely from an aero-plane for 10 s and then the parachute opens out. Now he descends with a net retardation of 2.5 m/s^2 , if he bails out of the plane at a height of 2495m and $g = 10 \text{ m/s}^2$, his velocity on reaching the ground will be
 (A) 5m/s (B) 10m/s (C) 15m/s (D) 20m/s
33. A train's brakes have completely failed, and it's hurtling forward at a constant speed of 30 m/s. A boy is stuck on the tracks 150 meters ahead. Superman flies in and applies a constant force, bringing the train to a perfect stop right at the boy's feet. What was the magnitude of the constant deceleration Superman applied to the train?
 (A) 2 m/s^2 (B) 3 m/s^2
 (C) 4.5 m/s^2 (D) 6 m/s^2
34. The velocity-time graphs of a car and a scooter are shown in the figure.
 (i) the difference between the distance travelled by the car and the scooter in 15 s and (ii) the time at which the car will catch up with the scooter are; respectively
 (A) 337.5m and 25s (B) 225.5m and 10s
 (C) 112.5m and 22.5s (D) 112.5m and 15s

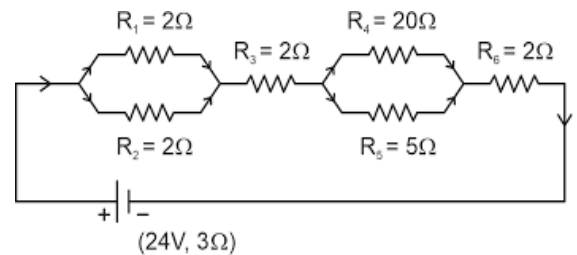
*Rough Work*

Current Electricity

35. The equivalent resistance between points A and B in the given network is



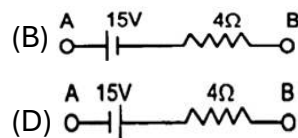
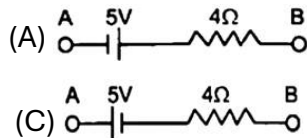
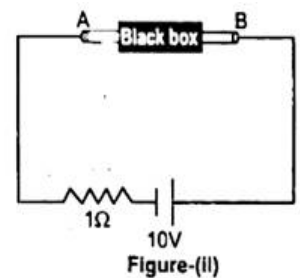
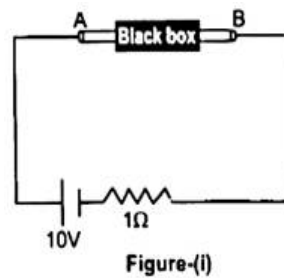
- (A) $65\ \Omega$ (B) $20\ \Omega$ (C) $5\ \Omega$ (D) $2\ \Omega$
36. A lighting technician on a film set has two different electric bulbs:
1. Bulb A is rated 100 W, 220 V.
 2. Bulb B is rated 60 W, 220 V.
- Instead of connecting them normally, he connects both bulbs in series to a single 220 V power supply. Which bulb will glow brighter and why?
- (A) Bulb A (100 W), because it is designed to be more powerful.
 (B) Bulb B (60 W), because it has a higher resistance.
 (C) Both will glow with the same brightness.
 (D) Neither bulb will glow in a series connection.
37. As shown in the figure, a network of resistors is connected to a battery of 24 V with an internal resistance of $3\ \Omega$. The currents through the resistors R_4 and R_5 are I_4 and I_5 respectively. The values of I_4 and I_5 are:



- (A) $I_4 = \frac{8}{5}\text{ A}$ and $I_5 = \frac{2}{5}\text{ A}$ (B) $I_4 = \frac{24}{5}\text{ A}$ and $I_5 = \frac{6}{5}\text{ A}$
 (C) $I_4 = \frac{6}{5}\text{ A}$ and $I_5 = \frac{24}{5}\text{ A}$ (D) $I_4 = \frac{2}{5}\text{ A}$ and $I_5 = \frac{8}{5}\text{ A}$

Rough Work

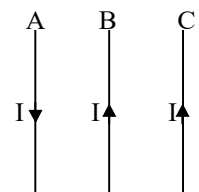
38. The black box shown may contain a battery with some resistance. When it is connected to a 10V battery with internal resistance 1Ω as shown in figure (i), current through the battery is found to be 1 amp. When it is connected as figure (ii), current through the battery is found to be 3 amp. The black box should contain the circuit inside as:



Electromagnetism

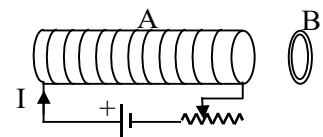
39. Three long straight wires A, B and C are carrying currents as shown in the figure. The resultant force on B is directed:

- (A) towards A
(B) towards C
(C) perpendicular to the plane of paper and inward
(D) perpendicular to the plane of paper and outward



40. An aluminium ring B faces an electromagnet A. Which of the following statements is correct?

- (A) If I increases, A will repel B
(B) If I decreases, A will repel B
(C) If I increases, A will attract B
(D) Whether I increases or decreases, B will not experience any force



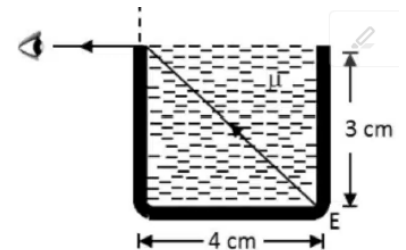
Rough Work

Human eye

41. The defective eye of a person has near point 0.5 m and point 3 m. The power far corrective lens required for
- (i) reading purpose and
(ii) seeing distant objects, respectively are:
- (A) 0.5 D and +3 D (B) +2 D and $-1/3$ D
(C) -2 D and $+1/3$ D (D) 0.5 D and -3.0 D
42. The danger signals installed at the top of tall buildings are red in colour. These can be easily seen from a distance because among all other colours, the red light
- (A) is scattered the most by smoke or fog
(B) is scattered the least by smoke or fog
(C) is absorbed the most by smoke or fog
(D) moves fastest in air

Ray Optics

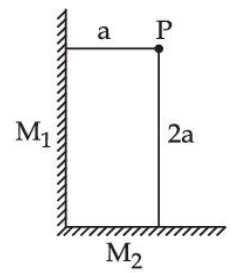
43. When the rectangular metal tank is filled to the top with an unknown liquid, as observer with eyes level with the top of the tank can just see the corner E; a ray that refracts towards the observer at the top surface of the liquid is shown. The refractive index of the liquid will be



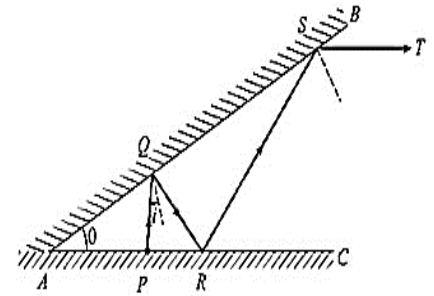
- (A) 1.25 (B) 1.64 (C) 1.47 (D) 1.9

Rough Work

44. Two plane mirrors M_1 and M_2 are at right angle to each other shown. A point source 'P' is placed at 'a' and '2a' meter away from M_1 and M_2 respectively. The shortest distance between the images thus formed is :
(Take $\sqrt{5} = 2.3$)



- (A) $3a$ (B) $4.6a$ (C) $2.3a$ (D) $2\sqrt{10}a$
45. Two plane mirrors AB and AC are inclined at an angle $\theta = 20^\circ$. A ray of light starting from point P is incident at point Q on the mirror AB, then at R on mirror AC and again on S on AB. Finally, the ray ST goes parallel to mirror AC. The angle which the ray makes with normal at point Q on mirror AB is:



- (A) 20° (B) 30°
(C) 40° (D) 60°

Rough Work

PART-III: CHEMISTRY**Atomic structure**

46. The neutron was discovered by
(A) J.J. Thomson (B) Rutherford
(C) James Chadwick (D) Neils Bohr
47. Bohr model successfully explains the spectrum of _____ atom.
(A) Boron (B) Hydrogen (C) Beryllium (D) All
48. The elements which have same number of protons but different mass number is called
(A) Isotones (B) Isobars (C) Isotopes (D) None of these
49. Electron configuration of "Cr" atom.
(A) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^4$ (B) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^1 3d^5$
(C) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^5$ (D) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^6$

Chemical bonding

50. Which of the following pair of elements can form an ionic compound?
(A) Na and Ca (B) K and O_2 (C) O_2 and Cl_2 (D) Al and I_2
51. In _____ bonding the valence electrons are shared among all the atoms of the elements.
(A) Covalent (B) Ionic (C) Hybrid (D) Triple
52. Which is not an exception to octet rule?
(A) BF_3 (B) $SnCl_4$ (C) BeF_2 (D) SF_6

Rough Work

Acid, Bases and Salts

53. Colour of methyl orange indicator in basic medium _____.
(A) Red (B) Yellow (C) Pink (D) Colourless
54. Which of the following produces H_2 gas, when reacts with acid?
(A) Zn (B) S (C) C (D) O
55. The pH of baking soda solution is
(A) 3 (B) 8.4 (C) 11 (D) 12

Chemical reaction and equations

56. Which copper is treated with a certain concentration of nitric acid, nitric oxide and nitrogen dioxides are liberated in equal volumes according to the equation
 $XCu + YHNO_3 \rightarrow Cu(NO)_3 + NO + NO_3 + H_2O$. The coefficients of X and Y are
(A) 2 and 3 (B) 2 and 6 (C) 1 and 3 (D) 3 and 8
57. Consider the following equations and choose the correct option
I. $2FeSO_{4(s)} \rightarrow Fe_2O_{3(s)} + SO_{2(g)} + SO_{3(g)}$
II. $ZnO + C \rightarrow Zn + CO$
III. $Pb_{(s)} + CuCl_{2(aq)} \rightarrow PbCl_{2(aq)} + Cu_{(s)}$
(A) I: Redox Reaction, II: Synthesis Reaction, III: Double displacement Reaction
(B) I: Decomposition Reaction, II: Synthesis Reaction,
III: Double displacement Reaction
(C) I: Redox Reaction, II: Displacement Reaction, III: Double displacement Reaction
(D) I: Decomposition Reaction, II: Redox Reaction, III: Displacement Reaction

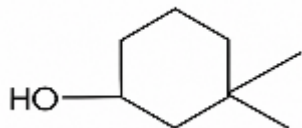
Rough Work

Carbon and its compounds

58. The number of covalent bonds in ethane (C_2H_6) is

- (A) 6 (B) 7 (C) 8 (D) 9

59. The IUPAC name of the following compound is



- (A) 3, 3-dimethyl-1-hydroxycyclohexane (B) 1, 1-dimethyl-3-hydroxycyclohexane
(C) 3, 3-dimethyl-1-cyclohexanol (D) 1, 1-dimethyl-3-cyclohecanol

60. Detergents are preferred over soaps because

- (A) They form scum in hard water (B) They are cheaper
(C) They can be used in hard water also (D) They are natural

Rough Work

 All the best 