



## I) Answer the following questions.

### A) 1 MARK (Write / Define / State)

1. Define : Electric current.
2. Write Ohm's Law.
3. Define : Resistance.
4. Define : Power of accommodation of an eye.
5. Write the lens formula.
6. Write the chemical formula of bleaching powder.
7. Define : Corrosion.
8. Define : Rancidity.
9. Write the chemical formula of cinnabar.
10. State the name of the acid present in stomach.

### B) 2 MARK (Write / State / Give reason)

11. Write any two functions of fuse and earthing in domestic circuit.
12. Give reason : Twinkling of a star is observed.
13. Write any two measures to prevent rancidity.
14. Write any two measures to prevent corrosion.
15. Write any two properties of ionic compounds.
16. Write any two differences between biodegradable and non-biodegradable substances.



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### C) 3 MARK (Explain / Write steps / Diagram-based)

17. Explain Myopia and write its correction with diagram instruction.
18. Write the characteristics of magnetic field lines.

19. Write a balanced chemical equation and state reaction type: **Calcium oxide + Water → Calcium hydroxide**.

20. Explain nutrition in Amoeba with neat diagram instruction.

**D) 4 MARK (Explain / Calculate / Structured)**

21. Calculate current drawn by a 220 V heater of resistance 11  $\Omega$ .

22. Explain the process of Plaster of Paris formation and write uses.

23. Write the sex determination in humans.

24. Explain biological magnification with example.

**E) 5 MARK (Draw/Label + Explain)**

25. Draw a neat labelled diagram of **domestic electric circuit** and write any three safety features.

26. Draw a ray diagram for image formation by a **concave mirror** when object is placed **between F and C**. Write position, size and nature of image.

28. Draw a neat labelled diagram of **human brain** and write functions of cerebrum, cerebellum and medulla.

29. Explain ozone formation and write the main compound responsible for depletion of ozone layer.

30. Explain the series and parallel connection of resistors with formulas and one example each.

**II) Most Repeated Questions**

1. Define : Power of accommodation of an eye. (1M)

2. Explain Myopia and its correction with diagram instruction. (3M)

3. Write any four differences between Myopia and Hypermetropia. (2M)

4. Draw ray diagram for concave mirror when object between F and C; write image details. (5M)

5. Draw ray diagram for convex lens for object between F and 2F; write image details. (5M)

6. Give reason : Twinkling of star is observed. (2M)

7. Calculate current using Ohm's law for given V and R. (4M)

8. Write function of fuse and earthing. (2M)

9. Draw domestic electric circuit and write three safety features. (5M)



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10. State characteristics of magnetic field lines. (3M)
11. State Fleming's left-hand rule. (2M)
12. Draw magnetic field lines through solenoid (diagram instruction). (3M)
13. Write chemical formula of bleaching powder. (1M)
14. How is Plaster of Paris formed? Write equation and uses. (4M)
15. Write balanced chemical equation and state type:  $\text{CaO} + \text{H}_2\text{O} \rightarrow \text{Ca(OH)}_2$ . (3M)
16. What is combination reaction? Explain with example. (3M)
17. Define corrosion; write two prevention methods. (4M)
18. What is rancidity? Write two preventive measures. (3M)
19. Write IUPAC name and identify functional group from given structure. (3M)
20. Write any two properties of ionic compounds. (2M)
21. Define : Heredity. (1M)
22. Write sex determination in humans. (4M)
23. Draw male reproductive system and write functions of any four parts. (5M)
24. Draw female reproductive system and write functions of any four parts. (5M)
25. What is nutrition? Explain nutrition in Amoeba with neat diagram. (3M)
26. Draw human digestive system and write functions of main parts. (5M)
27. Draw human excretory system and write functions of kidney, ureter, urinary bladder, urethra. (5M)
28. Draw human brain and write functions of cerebrum, cerebellum, medulla. (5M)
29. Write hormones and functions: Thyroxine / Insulin / Adrenaline / Testosterone (any three). (3M)
30. Explain biological magnification with example. (4M)



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### III) TREND MAP (Concise)

#### Repeated exact question



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Repeated board-ready frame (exact style)	Frequency pattern (from set)	Common traps (student mistakes)
1. Define : Power of accommodation of an eye.	Appears every year / very frequent	Writing "range of vision" only; missing <i>least distance / far point</i> idea
2. Explain near sightedness (Myopia) and its correction with the help of diagram.	Very frequent	Wrong lens (convex instead of concave); diagram without ray labels
3. Write any four differences between Myopia and Hypermetropia.	Alternate years	Mixing symptoms; wrong corrective lens
4. Write the lens formula.	Repeats	Wrong sign convention; writing mirror formula instead
5. Draw the ray diagram for image formation by a concave mirror / convex lens for given position.	Every year	Wrong principal rays; not marking F, 2F; wrong nature/size of image
6. Write Ohm's Law and define unit of resistance.	Every year	Formula without condition (constant temperature); unit symbol wrong
7. Calculate equivalent resistance / current / potential difference using series-parallel circuit.	Every year	Unit missing; wrong series/parallel rule; arithmetic errors
8. Write the function of fuse and earthing in domestic circuit.	Very frequent	Fuse placed in neutral; earthing meaning confused with "return wire"
9. Draw a neat labelled diagram of domestic electric circuit.	Frequent	Missing main switch/MCB/fuse/earth wire; wrong connections
10. State the characteristics of magnetic field lines.	Frequent	"Lines intersect" written; direction not stated
11. State Fleming's left-hand rule.	Frequent	Mixing with right-hand rule; not stating motion/field/current correctly
12. Draw a neat labelled diagram of magnetic field lines through and around a solenoid.	Frequent	Direction arrows missing; poles not shown
13. Write a balanced chemical equation and write the type of reaction.	Every year	Not balanced; type wrong (combination/displacement confusion)
14. What is combination reaction? Explain with example.	Frequent	Writing decomposition example; equation missing

Repeated board-ready frame (exact style)	Frequency pattern (from set)	Common traps (student mistakes)
15. Give scientific reason : It is necessary to use pesticides and other chemicals in a controlled use.	Repeats	Writing general story; no cause-effect keywords
16. Define : Corrosion. Give example. Write any two measures to prevent corrosion.	Frequent	Prevention methods vague; example missing
17. What is rancidity? State the measures to prevent rancidity.	Very frequent	Writing "food spoils" only; measures not specific (nitrogen packing, antioxidants)
18. Write the chemical formula of bleaching powder.	Repeats	Confusing with $\text{Ca}(\text{OH})_2$ / $\text{CaOCl}_2$ spelling; wrong name
19. How is Plaster of Paris formed? Write an equation. Write uses of Plaster of Paris.	Repeats	Wrong reactant/temperature; uses too generic
20. Write the chemical name and chemical formula of (common substance) and write any two uses.	Frequent	Name/formula mismatch; uses not relevant
21. Write IUPAC name / identify functional group from given structure.	Frequent	Wrong suffix/prefix; functional group confused (aldehyde/ketone)
22. Write the names and formulae of functional groups.	Alternate years	Formula wrong ( $-\text{COOH}$ / $-\text{CHO}$ ); examples missing
23. Define : Heredity.	Repeats	Writing "genes" only; definition incomplete
24. Write sex determination in humans / difference between X and Y chromosome.	Frequent	Saying "mother decides sex"; chromosome pair wrong
25. Draw a neat labelled diagram of male reproductive system / female reproductive system.	Frequent	Labels missing; mixing parts (vas deferens/urethra etc.)
26. Write any two contraceptive methods and explain any one.	Frequent	Only names; no mechanism; mixing methods
27. What is nutrition? Explain nutrition in Amoeba with neat diagram.	Repeats	No diagram; steps not in order (ingestion $\rightarrow$ ... $\rightarrow$ egestion)
28. Draw a neat labelled diagram of human brain.	Repeats	Wrong lobes/parts; labels missing
29. Write the hormones and their functions (Thyroxine/Insulin/Adrenaline/Testosterone).	Frequent	Function mismatched; gland wrong
30. What is biological magnification? Explain with example.	Repeats	Confusing with biomagnification vs bioaccumulation; no trophic level link
31. What is ozone? How is ozone formed? Which compound is responsible for depletion of ozone layer?	Every year	Confusing ozone formation; wrong cause (not CFC)



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## **Strategy for 10th GSEB Science Exam**

**Rest Well Before the Exam** – Ensure you take proper rest the night before the exam so that your mind remains fresh and alert for numerical problems and theory-based questions.

**Start Your Morning with Light Revision** – Revise important formulas, diagrams, and key definitions from Physics, Chemistry, and Biology to activate your memory.

**Understand the Purpose of the Science Exam** – The paper tests your conceptual understanding, numerical problem-solving ability, application of formulas, and clarity in explanations.

**Stay Calm and Confident** – Keep a positive attitude and attempt each section carefully without panic. Read every question properly before answering.

**Utilize the Reading Time Wisely** – Use the 15-minute reading time to go through the entire question paper, identify easy and difficult questions, and plan the order in which you will attempt them.

**Manage Your Time Effectively** – Distribute time properly among sections. Try to complete the paper **15–20 minutes early** so that you get enough time for recheck and can correct any mistakes.

**Practice Numericals, Diagrams, and Equations** – Revise important numerical problems, chemical equations, and labelled diagrams to improve accuracy and presentation.

**Recheck Your Answer Sheet** – Carefully check calculations, units, spellings, and scientific terms. Ensure diagrams are neat and properly labelled, and answers are to the point.

## **ALL THE BEST**

### **New Batches at AAYTAN for Academic Year 2026-27 Start Dates**

<b>STANDARD</b>	<b>COMMENCING DATES</b>
<b>11th PCMB</b>	<b>19<sup>th</sup> March 2026</b>
<b>12th PCMB</b>	<b>12<sup>th</sup> March 2026</b>
<b>8th CBSE</b>	<b>02<sup>nd</sup> April 2026</b>
<b>9th CBSE</b>	<b>26<sup>th</sup> March 2026</b>
<b>10th CBSE</b>	<b>26<sup>th</sup> March 2026</b>

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