

Class X – Science
Model Question Paper
(SET- 3)

Time: 3 Hours

Maximum Marks: 80

QUESTION PAPER STRUCTURE

Section Type		Questions Marks	
A	MCQs	20	20
B	Very Short Answer	5	10
C	Short Answer	6	18
D	Long Answer	5	25
E	Case Based	1	7
Total		37	80

SECTION A – MCQs (1×20 = 20)

1. The pH value of acidic solution is generally:
A. More than 7
B. Equal to 7
C. Less than 7
D. Equal to 14
2. Which mirror can form image of same size as object?
A. Concave mirror
B. Convex mirror
C. Plane mirror
D. Parabolic mirror
3. SI unit of electric charge is:
A. Coulomb
B. Ampere

- C. Volt
 - D. Ohm
4. Which hormone is responsible for growth?
- A. Insulin
 - B. Thyroxine
 - C. Growth hormone
 - D. Adrenaline
5. Which metal is stored in kerosene oil?
- A. Aluminium
 - B. Iron
 - C. Sodium
 - D. Copper
6. Plaster of Paris is obtained from:
- A. Limestone
 - B. Gypsum
 - C. Baking soda
 - D. Washing soda
7. Image formed by concave lens is always:
- A. Real and inverted
 - B. Virtual and erect
 - C. Real and erect
 - D. Virtual and inverted
8. Which of the following is a semiconductor?
- A. Copper
 - B. Aluminium
 - C. Silicon
 - D. Rubber
9. The site of fertilization in human females is:
- A. Uterus
 - B. Ovary
 - C. Oviduct
 - D. Cervix
10. Which gas is used by plants during photosynthesis?
- A. Oxygen
 - B. Carbon dioxide
 - C. Nitrogen
 - D. Hydrogen

11. Unit of electrical energy is:
- A. Watt
 - B. Joule
 - C. Ampere
 - D. Volt
12. Which metal is best conductor of electricity?
- A. Iron
 - B. Copper
 - C. Silver
 - D. Aluminium
13. Which process converts sugar into alcohol?
- A. Respiration
 - B. Fermentation
 - C. Digestion
 - D. Oxidation
14. Power of lens is measured in:
- A. Watt
 - B. Dioptre
 - C. Metre
 - D. Joule
15. Which acid is present in curd?
- A. Acetic acid
 - B. Citric acid
 - C. Lactic acid
 - D. Oxalic acid
16. Which mirror is used by dentist?
- A. Plane
 - B. Convex
 - C. Concave
 - D. Cylindrical
17. The green colour of leaves is due to:
- A. Carotene
 - B. Chlorophyll
 - C. Anthocyanin
 - D. Xanthophyll
18. Removal of metabolic wastes is called:
- A. Nutrition

- B. Respiration
- C. Excretion
- D. Circulation

19. Which metal displaces copper from its solution?

- A. Silver
- B. Gold
- C. Iron
- D. Mercury

20. Which device converts chemical energy into electrical energy?

- A. Bulb
- B. Switch
- C. Electric motor
- D. Cell

SECTION B – Very Short Answer (2×5 = 10)

- 21. Define centre of curvature of a mirror.
- 22. What is meant by biodegradable substance?
- 23. Name the hormone that controls metabolism.
- 24. Write one use of washing soda.
- 25. Define electric potential difference.

SECTION C – Short Answer (3×6 = 18)

- 26. What is neutralization reaction? Give one example.
- 27. Draw ray diagram for image formed by convex lens when object is at infinity.
- 28. Define electric resistance. Mention one factor affecting it.
- 29. Write two functions of human lungs.
- 30. What is reactivity series? Why is it important?
- 31. What is food chain? Write one example.

SECTION D – Long Answer (5×5 = 25)

32. Describe the process of digestion in human stomach.
33. Explain electric power and derive its formula.
34. Describe male reproductive system in humans with diagram.
35. Write five uses of metals in daily life.
36. Explain refraction of light with neat ray diagram.
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SECTION E – Case Based Question (1×7 = 7)

37. Case Study – Acids, Bases and Salts:

A student added dilute hydrochloric acid to zinc granules. Bubbles of a gas were observed and the gas burnt with a pop sound.

- a) Name the gas evolved.
- b) Write the chemical equation of the reaction.
- c) Identify the type of reaction.
- d) Name one use of this gas.
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