

Class 10 – Science
Model Question Paper
(SET-6)

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. A base turns red litmus to:
A. Red
B. Blue
C. Green
D. Yellow
2. Which lens is used to correct myopia?
A. Convex lens
B. Concave lens
C. Cylindrical lens
D. Bifocal lens
3. The SI unit of electric current is:
A. Volt
B. Ohm

- C. Ampere
 - D. Watt
4. Which hormone controls the rate of metabolism?
- A. Insulin
 - B. Thyroxine
 - C. Adrenaline
 - D. Estrogen
5. Which metal reacts vigorously with cold water?
- A. Iron
 - B. Copper
 - C. Sodium
 - D. Aluminium
6. Bleaching powder is prepared by passing chlorine over:
- A. Quick lime
 - B. Slaked lime
 - C. Limestone
 - D. Gypsum
7. The image formed by a concave mirror at focus is:
- A. Virtual
 - B. Real and inverted
 - C. At infinity
 - D. Same size
8. Which is the best conductor of electricity?
- A. Iron
 - B. Copper
 - C. Silver
 - D. Aluminium
9. Which part of the flower produces pollen grains?
- A. Ovary
 - B. Anther
 - C. Stigma
 - D. Style
10. Which gas is released during aerobic respiration?
- A. Oxygen
 - B. Nitrogen
 - C. Carbon dioxide
 - D. Hydrogen

11. Unit of electric power is:
- A. Joule
 - B. Watt
 - C. Ampere
 - D. Volt
12. Which metal is used for making electric wires?
- A. Iron
 - B. Aluminium
 - C. Copper
 - D. Zinc
13. The process of loss of water vapour from leaves is called:
- A. Transpiration
 - B. Respiration
 - C. Photosynthesis
 - D. Excretion
14. The power of concave mirror is:
- A. Positive
 - B. Negative
 - C. Zero
 - D. Infinite
15. Which acid is present in tamarind?
- A. Citric acid
 - B. Oxalic acid
 - C. Acetic acid
 - D. Lactic acid
16. Which mirror gives a wider field of view?
- A. Plane
 - B. Concave
 - C. Convex
 - D. Cylindrical
17. The genetic material present in cells is:
- A. RNA
 - B. Protein
 - C. DNA
 - D. Lipid
18. Removal of liquid wastes from the body is:
- A. Respiration

- B. Excretion
- C. Nutrition
- D. Circulation

19. Which metal is found in free state in nature?

- A. Sodium
- B. Calcium
- C. Gold
- D. Iron

20. Which component is used to vary current in a circuit?

- A. Fuse
- B. Switch
- C. Rheostat
- D. Ammeter

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

- 21. Define focal length of a lens.
- 22. What is biodegradable waste?
- 23. Name the hormone that regulates blood sugar level.
- 24. Write one use of bleaching powder.
- 25. Define electric resistance.

SECTION C – Short Answer (3×6 = 18)

- 26. Explain corrosion and mention one method to prevent it.
- 27. Draw a ray diagram for image formation by concave lens.
- 28. State Ohm's law and write its formula.
- 29. Write two functions of the human heart.
- 30. What is an ore? Give one example.
- 31. Define food web and state its importance.

SECTION D – Long Answer (5×5 = 25)

32. Explain the process of nutrition in human beings.
 33. Derive the relation between electric power, voltage and current.
 34. Describe the process of reproduction in flowering plants.
 35. Write properties and uses of acids.
 36. Explain refraction of light through a glass slab with diagram.
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SECTION E – Case Based Question (1×7 = 7)

37. Case Study – Control and Coordination:

A person accidentally touched a hot object and immediately pulled his hand away.

- a) Name the type of response shown.
 - b) Which part of the nervous system is involved?
 - c) Name the pathway of this response.
 - d) State one advantage of such response.
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