

SPECTRA PRACTICE PAPER (2025)
SPECTRA CLASSES
CLASS – 6th (SCIENCE)

TIME: 3 Hrs.

MM: 80

General Instructions

1. This question paper consists of 38 questions. All questions are compulsory.
2. This paper is divided into five sections – A, B, C, D and E.
3. Section A (Q.1–18): Multiple Choice Questions (1 mark each) & Q.19–20: Assertion–Reason based questions (1 mark each).
4. Section B (Q.21–25): Very Short Answer questions (2 marks each).
5. Section C (Q.26–31): Short Answer questions (3 marks each).
6. Section D (Q.32–35): Long Answer questions (5 marks each).
7. Section E (Q.36–38): Case Study–based Integrated questions (4 marks each).
8. Draw neat diagrams wherever required.
9. Use of calculators is NOT allowed.

SECTION – A (1 Mark Each)

1. Which of the following is a reversible change?
a) Burning of paper b) Melting of ice
c) Rusting of iron d) Cooking of food
2. Which of the following is not a source of energy?
a) Sun b) Coal c) Water d) Plastic
3. The device used to measure temperature is called:
a) Barometer b) Thermometer c) Manometer d) Hydrometer
4. Which gas is essential for respiration?
a) Nitrogen b) Oxygen c) Carbon dioxide d) Hydrogen
5. Which of the following does not belong to the group?
a) Cow b) Dog c) Lion d) Mango
6. Which part of the plant makes food?
a) Root b) Stem c) Leaf d) Flower
7. The process of conversion of water vapour into liquid is called:
a) Evaporation b) Condensation c) Precipitation d) Filtration
8. Which of the following is a conductor of electricity?
a) Plastic b) Rubber c) Copper d) Wood
9. The Earth's rotation causes:
a) Seasons b) Day and Night c) Moon phases d) Tides

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- 10. Which part of our digestive system absorbs nutrients?**
a) Mouth b) Stomach c) Small intestine d) Large intestine
- 11. The change from solid to gas directly is called:**
a) Freezing b) Melting c) Sublimation d) Condensation
- 12. A push or pull on an object is called:**
a) Energy b) Work c) Force d) Power
- 13. Which of the following is an insulator?**
a) Iron b) Aluminium c) Glass d) Copper
- 14. The unit of length in SI system is:**
a) Centimeter b) Meter c) Kilometer d) Millimeter
- 15. The planets move around the sun due to:**
a) Frictional force b) Magnetic force
c) Gravitational force d) Electric force
- 16. The temperature at which water boils is:**
a) 0°C b) 25°C c) 50°C d) 100°C
- 17. Which of the following separates immiscible liquids?**
a) Filter paper b) Funnel c) Separating funnel d) Magnet
- 18. The gas produced during photosynthesis is:**
a) Carbon dioxide b) Oxygen c) Nitrogen d) Methane
- 19. Assertion (A): Air contains oxygen.
Reason (R): Oxygen supports burning.**
- 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. Both A and R are false
- 20. Assertion (A): Plastic is a good conductor of electricity.
Reason (R): It allows electric current to flow through it easily.**
- 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) Both A and R are false

SECTION – B (2 Marks Each)

- 21. Write any two differences between living and non-living things.**
- 22. State two methods of separation of mixtures.**

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23. What is a habitat? Give one example each of terrestrial and aquatic habitat.
24. Why is water called a universal solvent?
25. Mention two examples of irreversible changes.

SECTION – C (3 Marks Each)

26. Explain the process of digestion in humans.
27. Define evaporation. List three factors that affect the rate of evaporation.
28. Draw a neat diagram of the water cycle and label it.
29. Explain the three states of matter with one example each.
30. What are conductors and insulators? Give two examples of each.
31. Define adaptation. How do camels survive in deserts?

SECTION – D (5 Marks Each)

32. What is a thermometer? Explain its working and different types.
33. Describe the different types of changes (physical and chemical) with suitable examples.
34. Explain the journey of food through the human digestive system with a labelled diagram.
35. Describe the importance of the Sun as a source of energy.
36. List any four forms of energy derived from the Sun.

SECTION – E (4 Marks Each)

(Case Study Based Questions)

Q.36 Riya placed an iron nail in water for several days. After a week, she noticed a brown layer on it.

- Name the process.
- Write the conditions necessary for this process.
- Suggest two ways to prevent it.
- Is it a physical or chemical change? Why?

Q.37 A farmer grows plants in a greenhouse where temperature and humidity are controlled.

- Why is temperature control important for plant growth?
- How does humidity affect transpiration?
- What device is used to measure temperature?
- Suggest two advantages of greenhouse farming.

Q.38 A student mixed sand, salt, and water in a beaker.

- Which method can be used to separate sand?
- How can salt be separated from water?
- Write the steps of the complete separation process.
- Which type of change occurs when salt dissolves in water?