

SPECTRA PRACTICE PAPER

SPECTRA CLASSES

CLASS – 6TH

SUBJECT – SCIENCE

TIME – 3 HR.

MM: 80

General Instruction:

1. This question paper consists of 38 questions. All questions are compulsory.
2. This question paper is divided into five Sections - A, B, C, D and E.
3. Section A, Question numbers 1 to 18 are multiple choice questions (MCQs) and questions numbers 19 and 20 are Assertion - Reason based questions of 1 mark each.
4. Section B, Question numbers 21 and 25 are very short answer (VSA) type questions. Carrying 2 marks each.
5. Section C, Question numbers 26 and 31 are short answer (SA) type questions. Carrying 3 marks each.
6. Section D, Question numbers 32 and 35 are long answer (LA) type questions. Carrying 5 marks each.
7. Section E, Question numbers 36 and 38 are case-study based integrated question carrying 4 marks each.
9. Draw neat diagrams wherever required. .
10. Use of calculators is NOT allowed.

SECTION – A

1. Animals in the desert go for a long summer sleep, as the summer is hot and with very little water and food. This summer sleep is called:
(a) Hibernation (b) Migration (c) Aestivation (d) Adaptation
2. Which of the following mixtures would you be able to separate using the method of filtration ?
(a) Oil in water (b) Cornflakes in milk (c) Sugar in milk (d) Salt in water
3. Loss of water by plants is called
(a) Condensation (b) Transpiration (c) Transportation (d) Evaporation
4. Which one is a feature of classification ?
(a) It is done to make substance look ugly.
(b) It make the study of properties easier.
(c) It make the substance easily digestible.
(d) It make the study of properties difficult.
5. Natural magnet magnetite contains
(a) Iron (b) Nickel (c) Copper (d) Cobalt
6. Which of the following is a good source of iron?
(a) Potato (b) Beet root (c) Green vegetables (d) Tomato
7. In 1790, French created a standard unit of measurement called
(a) Naino System (b) Metric System (c) International standard System (d) Modern System
8. The process of conversion of water vapour into liquid is called
(a) Decantation (b) Sedimentation (c) Evaporation (d) Condensation

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9. Which of the following contains largest sized rock particles?
(a) Clay (b) Sand (c) Silt (d) Gravel
10. Earth appear blue from the sky due to presence of
(a) Forests (b) Air (c) Water (d) Mountains
11. What is filled in the bulb of a thermometer?
(a) Silver (b) Copper (c) Lead (d) Mercury
12. What does every new discovery in Science lead to?
(a) A confirmed fact (b) More questions and further exploration
(c) A finished project (d) A final answer
13. The plant having the stem branching out near the base and bushy appearance are called
(a) Trees (b) Herbs (c) Shrubs (d) Climber
14. Which year was observed as International Year of Fresh Water?
(a) 2002 (b) 2006 (c) 2004 (d) 2003
15. We should boil the drinking water to
(a) Kills the germs (b) Increase the taste (c) Increase solubility (d) Make more soft
16. The bread, cereal, rice and pasta group is a good source of ...
(a) Calcium (b) Vitamin C (c) Vitamin D (d) Carbohydrate
17. In polar region, the condition is extremely
(a) Cold and Humid (b) Hot and Temperature (c) Hot and Humid
(d) Cold and temperature
18. Tape recorder uses
(a) Transparent tap (b) Magnetic tape (c) Permanent tap (d) Magnetic rubber
19. Assertion (A) : Measurement means the comparison of a known quantity which is known as unit.
Reason (R) : The result of a measurement is expressed in two parts. One part is a number . The other part is the unit of the measurement.
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true and R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.
20. Assertion (A) : Earthworms breathe through their skin. Fish, have gills for using oxygen dissolved in water.
Reason (R) : Some animals may have different mechanisms for the exchange of gases, which is a part of the respiration process.
(a) Both A and R are true and R is the correct explanation of A.
(b) Both A and R are true and R is not the correct explanation of A.
(c) A is true but R is false.
(d) A is false but R is true.

Section –B

This section consists of 5 questions of 2 marks each.

21. What is science?
22. Give reason for aluminium is used to make electrical wires.
23. Why do we wear light coloured cotton clothes when it is hot?
24. Write true or false
 - (i) Plants are of same kind.
 - (ii) We get many useful things from plants.
 - (iii) Climbers and creepers are weak plants.
 - (iv) Big plants are called creepers.
 - (v) Animals also live in homes.
25. What are the distinguishing features of the plant ‘Saturn’ or ‘Shani’?

Section - C

This section consists of 6 questions of 3 marks each.

26. Draw the diagram of
 - (a) Bar magnet
 - (b) Horse-shoe magnet.
27. If you are sitting in a moving bus, are you at rest or in motion?
28. Mention the main processes that help in the circulation of water in nature.
29. Describe the method to obtain salt from sea water.
30. Propose a plan to use less water in your school. What steps would you take to make this plan happen and how would it help the environment?
31. Explain the adaptation of elephant to live in tropical rainforest.

Section - D

This section consists of 4 questions of 5 marks each.

32. Show that a magnet has two poles. What are the properties of the poles of a magnet?
33. (i) What are various functions of protein?
 - (ii) Name the disease caused by the deficiency of proteins in the diet of children.
 - (iii) Give the symptoms of protein deficiency in children.
34. In which part of the sky and at what time of year are the following star and constellations seen : great bear, the pole star and the origin.
- 35 . State similarities and differences between the laboratory thermometer and the clinical thermometer.

Section - E

This section consists of 3 Case - Study Based Questions of 4 marks each.

36. Read the text carefully and answer the questions :

Nisha add sugar and salt to two separate glasses of water. She stirs the mixture in each glass every time she adds salt or sugar to it.

She notes her findings in table.

	Number of spoons added	Did the substance dissolve in water?
Sugar	1	yes
	2	yes
	3	yes
Salt	1	yes
	2	yes
	3	yes

(i) What can Nisha conclude from her activity?

- A. Sugar and salt dissolve equally in water.
- B. Sugar is more soluble than salt in water.
- C. Stirring helps in dissolving all substances in a liquid.
- D. Sugar forms a saturate solution in water but salt does not.

(ii) Nisha used two spoons of the same size to add sugar and salt to water. What else did Nisha need to keep the same for her activity?

(iii) Nisha repeats the activity using hot water. Will the result in the table remain the same? Explain your answer.

(iv) Which of these processes could be used to separate the salt dissolved in the glass of water?

- A. Filtration B. Evaporation C. Condensation D. Sedimentation

37. Read the text carefully and answer the questions:

Sana was very excited and decided to set up some fun activities using magnet at her school fair.

(a) Can magnet move some objects without touching them?

(b) A magnet can attract a :

- (i) Steel ring (ii) copper plate (iii) rubber band (iv) glass rod

(c) Which of the following items cannot be picked up by a magnet?

- (i) Hari pins (ii) paper clips (iii) aluminium foils (iv) iron nails

(d) Who discovered the first natural magnet ?



38. Read the text carefully and answer the questions:

Some common places where stagnant water is likely to gather are desert coolers, planted pots and any open container. You may find two different types of worm - like creatures. They are larva and pupa, tow distinct life stages during the development of mosquito. Mosquito larvae and pupae observed in water bodies repeatedly come to the water surface because they need air to respire.

(i) Write the four stages of life cycle of Mosquitoes.

(ii) Where do mosquitoes lay their eggs?

(iii) Why do mosquito larvae and pupae repeatedly come to the water surface ?

(iv) Why we spread kerosene oil on stagnant water?

