SPECTRA PRACTICE PAPER (2025-2026) CLASS-VIIth SUBJECT: SCIENCE

DURATION: 3 HRS. M MARKS:80

General Instruction:

- 1. This question paper consists of 38 questions. All questions are compulsory
- 2. The paper is divided into five sections A, B, C, D, and E

	Section A	
	It consists of 20 questions each of 1 mark	
	Choose the correct option.	
1.	Which of the following is not a physical change?	1
	a) Melting of ice b) Burning of paper c) Dissolving sugar in water d) Boiling of water	
2.	The green pigment present in leaves is called:	1
	a) Hemoglobin b) Chlorophyll c) Xylem d) Phloem	
3.	Which part of the plant conducts food?	1
	a) Root b) Phloem c) Xylem d) Leaf	
4.	The process of conversion of water vapor into water is called:	1
	a) Condensation b) Evaporation c) Freezing d) Melting	
5	Which gas is necessary for photosynthesis?	1
	a) Oxygen b) Nitrogen c) Carbon dioxide d) Hydrogen	
6.	The hardest natural substance found on Earth is:	1
	a) Gold b) Diamond c) Iron d) Graphite	
7.	Which of these is an omnivore?	1
	a) Lion b) Cow c) Crow d) Goat	4
8.	Acid present in vinegar is:	1
	a) Citric acid b) Acetic acid c) Lactic acid d) Formic acid	
9.	Which of the following is a renewable source of energy?	1
	a) Coal b) Petroleum c) Solar energy d) Natural gas	
10.	The motion of a pendulum is:	1
	a) Circular b) Oscillatory c) Linear d) Rotatory	
11.	Which of these is used to measure temperature?	1
	a) Barometer b) Thermometer c) Hygrometer d) Speedometer	
12.	Soil erosion can be prevented by:	1
	a) Deforestation b) Overgrazing c) Afforestation d) Flooding	
13.	The SI unit of force is:	1
	a) Newton b) Joule c) Pascal d) Watt	
14.	Iron nails rust due to:	1
	a) Oxygen only b) Carbon dioxide c) Water and oxygen d) Nitrogen	
15.	Which part of the digestive system absorbs nutrients?	1
	a) Mouth b) Stomach c) Small intestine d) Large intestine	
16.	Which of the following is a non-metal?	1
	a) Iron b) Copper c) Carbon d) Silver	
17.	Lightning is caused by:	1
	a) Friction b) Electric discharge c) Pressure d) Heat	
18.	Wool is obtained from:	1
	a) Goat b) Camel c) Sheep d) All of these	
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	 (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. 	
19.	(d) A is false but R is true. Assertion (A): Chlorophyll helps plants to prepare food. Reason (R): Chlorophyll absorbs sunlight energy for photosynthesis.	1
20.	Assertion (A): Burning of wood is a chemical change. Reason (R): Because it produces new substances such as ash and gases.	1
	Section - B It consists of 4 questions each of 2 marks	2
21.	Define nutrition. Name the two modes of nutrition.	
22.	Why are roots important for a plant?	2
23.	Define friction. Write one harmful effect of friction.	2
24.	Write two differences between physical and chemical changes	2
25.	What is the difference between biodegradable and nonbiodegradable materials?	2
	Section - C It consists of 6 questions each of 3 marks	
26.	Explain the process of photosynthesis with the help of an equation.	3
27.	How does rainwater cause soil erosion? Suggest two preventive measures.	3
28.	What are the differences between conductors and insulators? Give one example of each.	3
29.	Explain how shadows are formed.	3
30.	Define acid, base, and neutral substances with one example each.	3
31.	How does forest help in maintaining the water cycle	3
	Section - D It consists of 4 questions each of 5 marks	
32.	Explain the process of digestion in humans with a neat labeled diagram of the digestive system.	5
33.	What are the three types of heat transfer? Explain each with examples.	5
34.	What is respiration? Explain the difference between aerobic and anaerobic respiration.	5
35.	Describe various components of soil. Write any two properties of humus.	5

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36.	Section - E It consists of 3 questions each of 4 marks Case Study Questions: A farmer noticed that his crops are not growing well. The soil was dry and eroded after heavy			
	rainfall. Answer the following: (a) What type of soil erosion might have occurred? (b) Suggest two ways to prevent soil erosion. (c) How does afforestation help in soil conservation.	1 1 2		
37.	Ravi's torch stopped working even after replacing the batteries. The bulb was fine. Answer the following: (a) What could be the possible reason for the torch not working? (b) Draw a simple circuit diagram showing battery, switch, and bulb. (c) Define a closed circuit.	1 1 2		
38.	During summer, water evaporates quickly from open containers. Answer the following: (a) Which process is involved here? (b) Mention any two factors that affect the rate of evaporation. (c) Write two everyday uses of evaporation.	1 1 2		