

**केन्द्रीय विद्यालय संगठन, जयपुर संभाग**  
**Kendriya Vidyalaya Sangathan, Jaipur Region**

**सत्रांत परीक्षा 2025-26**

**Session Ending Examination 2025-26**

**Practice Paper**

**Class: VII<sup>th</sup>**

**Subject: Science**

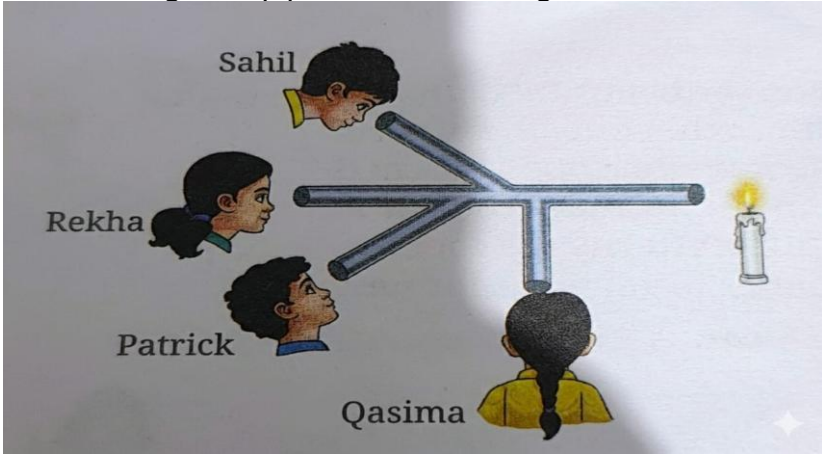
**Max. Marks: - 60**

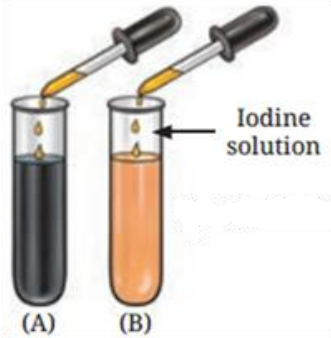
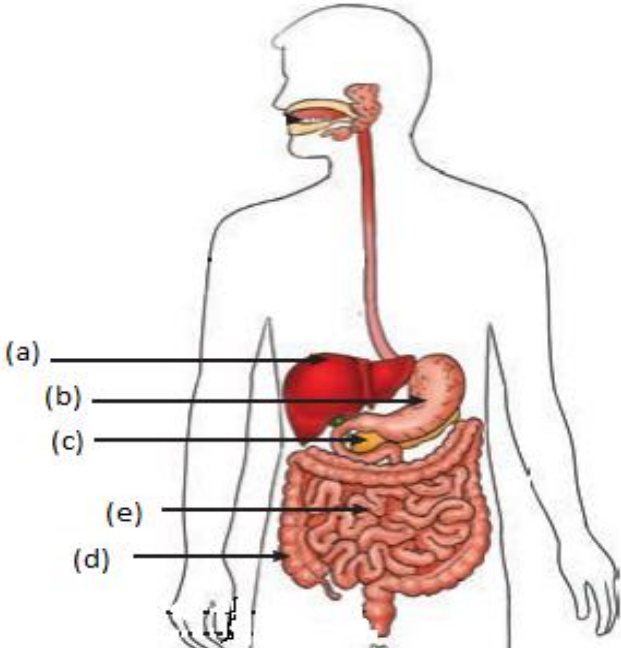
**Duration: 2  $\frac{1}{2}$  Hour**


**Section: A**

Q. No.	Questions	Marks
1.	Why does smoke rise upwards when an incense stick is burnt? (a) Because it is a mixture of solid particles and cold gases. (b) Because the air around it cools down and becomes heavier. (c) Because hot air expands, becomes lighter, and moves upward. (d) Because the process of radiation pushes the smoke away from the ground.	1.
2.	Which process of heat transfer is primarily responsible for the "Sea Breeze" phenomenon during the daytime? (a) Conduction (b) Radiation (c) Convection (d) Infiltration	1
3.	If Swati's bicycle speed is 4 m/s, how much distance will she cover in 2 minutes? (a) 8 metres (b) 480 metres (c) 120 metres (d) 3.6 kilometres	1
4.	If a train covers equal distances in equal intervals of time along a straight track, its motion is described as: (a) Non-uniform linear motion. (b) Uniform linear motion. (c) Oscillatory motion. (d) Periodic motion.	1
5.	A student chews a piece of plain chapati for 60 seconds and notices it begins to taste sweet. Which of the following best explains this chemical change? (a) The teeth have performed mechanical digestion, releasing natural sugars trapped in the wheat. (b) Saliva moistens the food, allowing the tongue to detect sugars	1

	<p>that were already present.</p> <p>(c) Salivary digestive juices break down complex starch into simpler sugars.</p> <p>(d) The wave-like motion of the oesophagus begins in the mouth, changing the food's chemistry.</p>	
6.	<p>If the finger-like projections (villi) in the small intestine were damaged, as seen in conditions like Celiac disease, what would be the primary consequence for the body?</p> <p>(a) Food would not be able to move from the stomach to the large intestine.</p> <p>(b) The body would be unable to efficiently absorb nutrients into the bloodstream.</p> <p>(c) The liver would stop producing bile for fat digestion.</p> <p>(d) Water absorption in the large intestine would increase significantly.</p>	1
7.	<p>Which part of the alimentary canal is the longest, measuring nearly 6 metres?</p> <p>(a) Oesophagus</p> <p>(b) Small Intestine</p> <p>(c) Large Intestine</p> <p>(d) Stomach</p>	1
8.	<p>The tiny pores on the surface of leaves responsible for gas exchange are called:</p> <p>(a) Xylem</p> <p>(b) Phloem</p> <p>(c) Chlorophyll</p> <p>(d) Stomata</p>	1
9.	<p>When standing in front of a plane mirror, you notice that if you raise your left arm, your image appears to raise its right arm. This phenomenon is known as:</p> <p>(a) Vertical inversion</p> <p>(b) Lateral inversion</p> <p>(c) Upright reflection</p> <p>(d) Pinhole effect</p>	1
10.	<p>In which direction does the Earth rotate when viewed from above the North Pole?</p> <p>(a) Clockwise (East to West)</p> <p>(b) Anti-clockwise (West to East)</p> <p>(c) North to South</p> <p>(d) It does not rotate, only revolves</p>	1
11.	<p>On which day does the Northern Hemisphere experience the longest day of the year (Summer Solstice)?</p> <p>(a) 21 March</p> <p>(b) 21 June</p> <p>(c) 23 September</p> <p>(d) 22 December</p>	1
12.	<p><b>Assertion:</b> plants release oxygen during the day.  <b>Reason:</b> oxygen is a product of photosynthesis, which occurs in the presence of sunlight.  choose the correct option:</p>	1

	(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) A is false but R is true	
13.	<b>Assertion (A):</b> Fish use lungs to breathe in oxygen dissolved in water. <b>Reason (R):</b> Gills are specialized structures richly supplied with blood vessels for gas exchange in water. choose the correct option: 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. A is false but R is true	1
14.	<b>Assertion (A):</b> Seasons occur due to the tilt of Earth's axis of rotation and its spherical shape. <b>Reason (R):</b> The Earth's distance from the Sun changes significantly throughout the year, causing seasons. choose the correct option: (a) Both A and R are true, and R explains A. (b) Both A and R are true, but R does not explain A. (c) A is true, but R is false. (d) A is false, but R is true.	1
<b>SECTION - B</b>		
15.	Pawan is going to a neighbouring city in a bus moving at a speed of 50 km/h. If it takes him 2 h to reach that city, how far is that city?	2
16.	Sahil placed some pieces of <i>chapati</i> in test tube A. Neha placed chewed <i>chapati</i> in test tube B. All of them added a few drops of iodine solution to their test tubes—A, and B respectively. What would be their observations? Give reasons.	2
17.	Sahil, Rekha, Patrick, and Qasima are trying to observe the candle flame through the pipe as shown in Fig. Who can see the flame? 	2
18.	Why does the Pole Star appear fixed in the sky?	2
<b>SECTION - C</b>		
19.	What is conduction? Explain the process of heat transfer in a metal strip during conduction.	3
20.	Yadu conducted an experiment to test his idea. He took two test	3

	<p>tubes, A and B, and added a pinch of rich flour to the test tubes half-filled with water and stirred them properly. To test tube B, he added a few drops of saliva. He left the two test tubes for 35-45 min. After that, he added iodine solution into both the test tubes. Experimental results are as shown in Fig. What do you think he wants to test?</p>  <p>Fig. Experimental results</p>	
21.	Identify the four essential requirements for photosynthesis and write the word equation for the process.	3
22.	Write the characteristics of image formed by a plane mirror.	3
23.	What are the two main causes of seasons occurring on Earth?	3
<b>SECTION-D</b>		
24.	<p>During a science experiment, a student sets up a simple pendulum in the lab. She observes that the pendulum completes 40 complete oscillations in 80 seconds.</p> <p>(i) Calculate the time period of the pendulum.</p> <p>(ii) If the number of oscillations is doubled, but the total time also becomes double, will the time period change? Explain.</p>	2 + 3
25.	<p>Label the following parts and name them.</p> 	5

	<p>(a) Secretes bile that breaks down fats and neutralises acids.</p> <p>(b) Breaks down proteins using digestive juice, acid, and mucus.</p> <p>(c) Secretes pancreatic juice that digests carbohydrates, proteins, and fats.</p> <p>(d) Absorbs water and salts; stores stool before egestion.</p> <p>(e) Receives digestive juices and absorbs nutrients through finger-like projections.</p>	
26.	<p>(i) Give two differences between luminous and non-luminous objects.</p> <p>(ii) Why is AMBULANCE written in reverse on the front of vehicles.</p> <p>(iii) What happens when light passes through a translucent material.</p>	2+2+1
	<b>SECTION-E</b> <b>(Case based questions)</b>	
27.	<p>Read the passage and answer the questions:</p> <p>During a cooking class, students noticed that the metal handle of a frying pan became hot while cooking. Their teacher explained that the heat from the stove travelled through the metal by conduction. She also pointed out that some pans have wooden or plastic handles to prevent burns.</p>  <p>(i) In this picture, what types of heat transfer take place?</p> <p>(ii) Why are wooden or plastic handles used in cooking utensils?</p> <p>(iii) Can plastic and wood be used to make the entire utensil? Justify your answer.</p>	<p>1</p> <p>1</p> <p>2</p>
28.	<p>Read the passage and answer the questions:</p> <p>Riya's class conducted an experiment to prove that leaves are the food factories of plants. They used iodine to test for starch in leaves and noticed that leaves exposed to sunlight turned blue-black. Their teacher explained that photosynthesis occurs only in green parts and in the presence of light.</p>	



- (i) What is the role of sunlight in photosynthesis?  
(ii) What is the name of the test used to detect starch in leaves?  
(iii) Name the raw materials required for photosynthesis.

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1  
2