

**Directorate of Education, GNCT of Delhi**  
**Mid Term Examination Practice Paper (Session: 2025-26)**  
**Class:VII ; Subject: SCIENCE (086)**

**Duration: 2.30 hours**

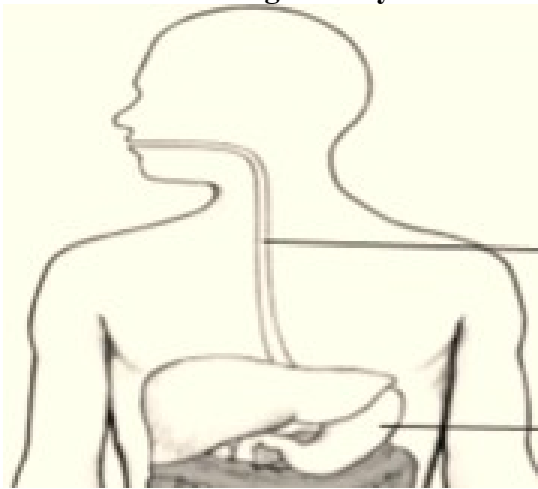
**Maximum Marks: 60**

***General Instructions:***

1. All questions are compulsory.
2. This question paper consists of Section A, B, C, D and E. Marks are indicated against each question.
3. Section A (Q.No.1,I-XII) consists of multiple choice questions.
4. Section B (Q.No.2-5) consists of very short answers questions of 2 marks each.
5. Section C (Q.No.6-8) consists of short answer questions of 3 marks each.
6. Section D (Q.No.9-11) consists of long answer questions of 5 marks each.
7. Section E (Q.No.12-15) consists of case based or source based questions having three subparts each.
8. There is no overall choice. However, internal choice is given in some of the questions. Only one of the choices in such questions has to be attempted.

Section A		
Q.No.	Question	Marks
1.	Read the questions from I-XII and choose the correct answer from the given options:	
I	_____ gas is evolved during photosynthesis. a) Hydrogen b) Nitrogen c) Oxygen d) Carbon Dioxide	1
II	Which bacterium fixes nitrogen in the soil? a) Lactobacillus b) Rhizobium c) E.Coli d) Clostridium	1
III	Bile juice is stored in _____. a) gall bladder b) liver c) pancreas d) rectum	1
IV	The process of removal of undigested food from the body is called _____. a) ingestion b) assimilation c) egestion d) absorption	1
V	An iron rod at 50C is dropped in a bucket containing water at 50C. The heat will a) flow from iron rod to water. b) not flow from iron rod to water or from water to iron rod. c) flow from water to iron rod. d) increase the temperature of both water and iron rod.	1
VI	When carbon dioxide is passed through lime water, it turns milky due to formation of _____. a) carbon dioxide b) carbon monoxide c) calcium carbonate d) calcium bicarbonate	1
VII	When an iron nail is put in a blue copper sulphate solution, the next day the solution turns into _____ colour. a) green b) brown c) red d) yellow	1
VIII	Which of the following may happen during a physical change: a) Evolution of gas b) Production of sound c) Change in shape d) Change in smell	1

<b>IX</b>	_____ is not a time measuring device. a) Pressure cooker    b) Sundial    c) Sandclock d) Waterclock	<b>1</b>
<b>X</b>	Identify the circular motion: a) Soldiers in a march past. b) Motion of earth around the sun. c) Motion of a swing. d) Bullock cart moving on a straight road.	<b>1</b>
<b>XI</b>	The S.I. unit of time is: a) minute    b) hour    c) second    d) millisecond	<b>1</b>
<b>XII</b>	Which of the following is an organic impurity found in water: a) nitrate    b) phosphate    c) human faeces    d) metal	<b>1</b>
<b>Section B</b>		
<b>2.</b>	The leaves of plants have tiny pores called stomata. What is the role of stomata?  <b>OR</b> What is symbiosis? Write the name of an organism living in symbiosis.	<b>2</b>
<b>3.</b>	Why do mushrooms grow well during the rainy season?	<b>2</b>
<b>4.</b>	State one difference between the laboratory thermometer and the clinical thermometer.  <b>OR</b> What is a land breeze?	<b>2</b>
<b>5.</b>	Cutting of paper is a physical change but burning of paper is a chemical change. Why?	<b>2</b>
<b>Section C</b>		
<b>6.</b>	i) Where is hydrochloric acid found in the digestive tract? ii) Write two ways in which this acid helps in digestion of food. <b>OR</b> i) Where is the food digested in an amoeba? ii) Write two functions of pseudopodia of an amoeba.	<b>3</b>
<b>7.</b>	i) Why do we prefer dark colored clothes during winters? ii) Suppose you are given the choice of using either one blanket or two thin blankets joined together during extreme cold. Which one would you choose and why?	<b>3</b>
<b>8.</b>	i) The to and fro motion of a simple pendulum is an example of _____ motion. ii) A simple pendulum takes 45 s to complete 30 oscillations. Calculate the time period of the pendulum. <b>OR</b> i) Define speed. ii) Show the distance-time graph for the motion in following cases: a) A truck moving with a constant speed. b) A car parked on the side of the road.	<b>3</b>

Section D		
9.	<p>Identify the parts of the human digestive system:</p>  <p><u>For Visually Impaired Students:</u> Write names of any five parts of the human digestive system.</p>	5
10.	<p>Fill in the blanks using correct option from the bracket:</p> <p>i) World Water Day is observed on _____. (22 March/ 22 May)</p> <p>ii) _____ is produced during treatment of sludge. (Oxygen/ Biogas).</p> <p>iii) _____ is an example of an onsite sewage disposal system. (Well/ Septic tank)</p> <p>iv) Untreated human excreta is a health _____ (hazard/ benefit).</p> <p>v) Dried sludge is used as _____ (disinfectant/ manure).</p>	5
11.	<p>i) Explain the process of rusting of iron. Mention the conditions necessary for rusting.</p> <p>ii) Suggest two methods to prevent rusting of iron.</p> <p style="text-align: center;">OR</p> <p>Classify the following as physical or chemical changes:</p> <p>i) Burning of magnesium ribbon. _____</p> <p>ii) Breaking of chalk into smaller pieces. _____</p> <p>iii) Cooking rice. _____</p> <p>iv) Melting of ice. _____</p> <p>v) Crystallization of copper sulphate. _____</p>	5
Section E		
12.	<p>Shalu took two potted plants of the same kind and labelled them A and B. She kept pot A in a dark room and pot B in sunlight. After 72 hours, she performed an iodine test on the leaves of both the plants.</p> <p>i) The leaves of which pot, A or B will turn into blue-black colour during iodine test?</p> <p>ii) Name the pigment which gives green colour to the plants.</p> <p><u>Attempt either (iii) or (iv).</u></p> <p>iii) What is photosynthesis?</p> <p>OR</p> <p>iv) Write names of two plants which are not autotrophs.</p>	4

13.	<p>Ravi was cooking halwa for his father's birthday. He noticed that the wooden handle of the pan stayed cool but the metal spatula was extremely hot.</p> <p>i) Name the process by which the heat from the pan got transferred to the metal spatula.</p> <p>ii) Copper is a _____ of heat. (conductor/insulator)</p> <p><u>Attempt either (iii) or (iv).</u></p> <p>iii) Why do cooking utensils have wooden or plastic handles? OR</p> <p>iv) Ravi took two tin cans of the same size, one white and another black in colour. He filled both of them with water and left them in the sun. Which can, black or white will be warmer? Why?</p>	4
14.	<p>Riya started cycling from her home at 7:15am to go to school, which is 10 km away. She reached the school at 7:55 am. In the evening, she returned home in 20 min by an autorickshaw.</p> <p>i) How many minutes did Riya take to reach the school in the morning?</p> <p>ii) Which mode was faster, bicycle or autorickshaw?</p> <p><u>Attempt either (iii) or (iv).</u></p> <p>iii) Calculate the speed of the bicycle in km/hr. OR</p> <p>iv) _____ measures the distance moved by a vehicle and _____ measures the speed of the vehicle.</p>	4
15.	<p>Four steps are involved in wastewater treatment plant:</p> <p>Step-I Wastewater is passed through bar screens to remove large objects like rags, cans etc.</p> <p>Step-II The water then goes to the grit and sand removal tank.</p> <p>Step-III The water is then allowed to settle in a large tank, sloped towards the middle, for removal of faeces.</p> <p>Step-IV Air is then pumped into the clarified water.</p> <p>i) Name a chemical used to disinfect water.</p> <p>ii) Air is pumped into clarified water to help the growth of _____.</p> <p><u>Attempt either (iii) or (iv).</u></p> <p>iii) Suggest two ways in which you can reduce sewage generation at home. OR</p> <p>iv) Suggest two ways in which you can maintain sanitation at public places.</p>	4