KOTHARI INTERNATIONAL SCHOOL, NOIDA

END TERM EXAMINATION, SESSION: 2024-25

GRADE: 7 SUBJECT: SCIENCE

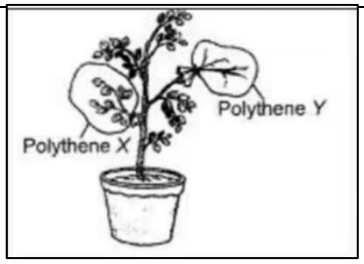
SET A

SECTION A (OBJECTIVE)

DAY & DATE:MONDAY- MARCH 03,2025 TIME ALLOTTED: 30 MINUTES
MAXIMUM MARKS: 20 GRADE/SEC: _____
NAME: _____ ROLL NO: _____

GENERAL INSTRUCTIONS:

- ***i). This question paper contains 17 questions. All questions are compulsory.***
- ***ii). Section A : Question Nos.1 to 11 carries 1 mark each.***
- ***iii). Section B : Questions Nos. 12 carries 2 marks each.***
- ***iv). Section C : Questions Nos. 13 to 15 carries 1 marks each***
- ***v). Section D : Questions Nos. 16 to 17 carries 2 marks each***

	SECTION A **Choose the correct option out of the following options.**	
Q1.	**Anaerobic bacteria digest animal wastes and produce biogas (change = A). The biogas is then burnt as fuel (change = B). The following statements pertain to these changes. Choose the correct one.** **(a) A is a chemical change. (b) B is a chemical change.** **(c) A and B are physical changes. (d) A and B are chemical changes.**	**(1)**
Q2.	**What is the reason of filling argon gas inside the bulb surrounding the filament?** **(a)To balance the pressure (b) To keep the space maintained** **(c)To avoid the oxidation of filament (d) All the above reason**	**(1)**
Q3.	**Tanmay took a potted, well-watered plant and set-up an experiment as shown in the given figure.** **Then, he put it in the sunlight for few hours.**  **Which of the following statements is correct regarding his observation?**	**(1)**

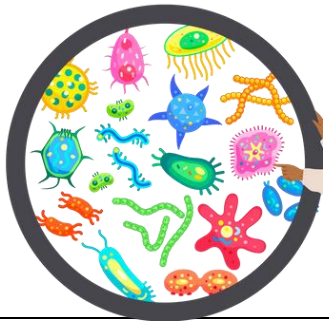
	(a) More water droplets are visible in polythene Y as transpiration takes place through stem. **(b) Water droplets are visible in polythene Y as photosynthesis occurs in stem.** **(c) Water droplets are visible in polythene X as photosynthesis occurs in leaves.** **(d) More water droplets are visible in polythene X as transpiration takes place through leaves**	
Q4.	**Read the given statements and select the option that correctly identifies them as True (T) and False (F) ones.** **I. Pulmonary artery carries blood from right ventricle to lungs for oxygenation.** **II. The pulse rate indicates the rate of heart beat.** **III. Circulation of blood from heart to lungs and vice versa is referred to as systemic circulation.** **IV. Atria have thicker muscular walls than ventricles.**	**(1)**

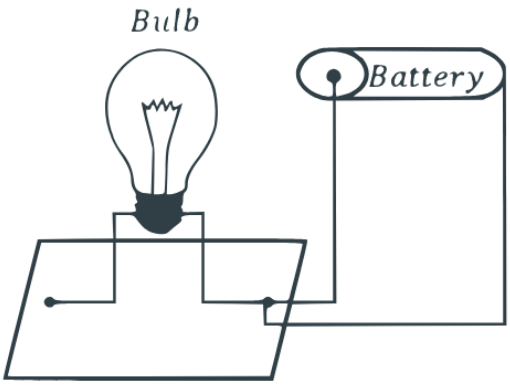
S.NO.	I	II	III	IV
A	T	T	F	F
B	T	F	T	F
C	T	F	F	T
D	F	T	F	T

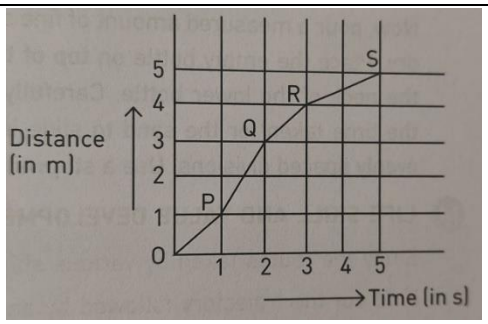
Which option is correct?

(a) C **(b) A**

(c) D **(d) B**

Q5.	**Raju has a magnifying glass with him. He boasted that he has seen a microorganism with his hand lens. It may be a** **(a) Fungus** **(b) Protogoan** **(c) Virus** **(d) Bacteria** 	**(1)**
Q6.	**In which of the following conditions a solenoid act as an electromagnet?** **(a) In the presence of a magnet** **(b) In the presence of a gold bar** **(c) Passing current through it** **(d) All of the above**	**(1)**

Q7.	**Prashant observed flowers of two different plants X and Y. Flowers of X are large, coloured, showy and produce nectar while flowers of Y are small, dull without nectar. Pollen grains of X are sticky and bigger while pollen grains of Y are small in size and dry.** **Which of the following is correct regarding X and Y?** **(a) X could be pollinated by wind whereas Y could be pollinated by insect** **(b) X could be pollinated by wind whereas Y could be pollinated by water** **(c) X could be pollinated by water whereas Y could be pollinated by insect** **(d) X could be pollinated by insect whereas Y could be pollinated by wind**	**(1)**
Q8.	**In the circuit given below, Will the bulb glow?**  **(a) No, the bulb will not glow as the connection is incorrect.** **(b) Yes, the bulb will glow as the connection is correct.** **(c) No, the bulb will not glow as the bulb filament is broken.** **(d) May be yes or no.**	**(1)**
Q9.	**Read the statements given below and identify the blood vessel.** **i. Contains Carbon dioxide rich blood.** **ii. Blood inside is under low pressure.** **iii. Valves present in vessels.** **(a) Vein** **(b) Capillary** **(c) Aorta** **(d) Artery**	**(1)**
Q10.	**A cube of ice, 2 cm in length, is left out in a cup and it turns to water. The cup is then kept in the freezer. The ice formed has the diameter of the cup what kind of change occurs in the ice?** **(a) Physical change with a change in state** **(b) A periodic change and naturally reforms over time.**	**(1)**

	(c) A direct change in shape from cube to a circle. **(d) A chemical change with formation of a new substance on heating**	
Q11.	**Select the correct statement:** **(a) Pollination is the visit of insects to the flower.** **(b) Pollination is the growths of pollen tube in ovule.** **(c) Pollination is germination of pollen grains.** **(d) Pollination is transfer of pollen grains from stamen to stigma.**	**(1)**
	SECTION B	
Q12.	**READ THE PASSAGE GIVEN BELOW AND ANSWER THE QUESTIONS THAT FOLLOW:**  **Study the following distance-time graph of Isha going to her friend's home** **1. What is the speed of the Isha between 3 seconds and 5 seconds?** **(a) 0.1 meters per second** **(b) 0.2 meters per second** **(c) 0.5 meters per second** **(d) 1 meters per second** **2. Which of the following portions of the graph show equal speed of Isha?** **(a) Portions PQ and QR** **(b) Portions RQ and PQ** **(c) All portions OP, PQ, QR and RS** **(d) Portions OP and QR** **3. In which portion of the graph, Isha is in rest?** **(a) In OP** **(b) In PQ** **(c) Isha is not in rest in any portion of the graph.** **(d) In RS** **4. In which time interval, the speed of Isha is maximum?** **(a) (0-1) second** **(b) (1-2) second** **(c) (3-5) second** **(d) Isha is moving with uniform speed**	**(0.5 X 4 = 2)**

SECTION C

Each question consists of two statements, namely Assertion (A) and Reason (R).

For selecting the correct answer use the following code: (Please write the correct option in the box. Do not write the full sentence)

(a) Both Assertion (A) and Reason (R) are the true and Reason (R) is a correct explanation of Assertion (A).

(b) Both Assertion (A) and Reason (R) are the true but Reason (R) is not a correct explanation of Assertion (A).

(c) Assertion (A) is true and Reason (R) is false.

(d) Assertion (A) is false and Reason (R) is true.

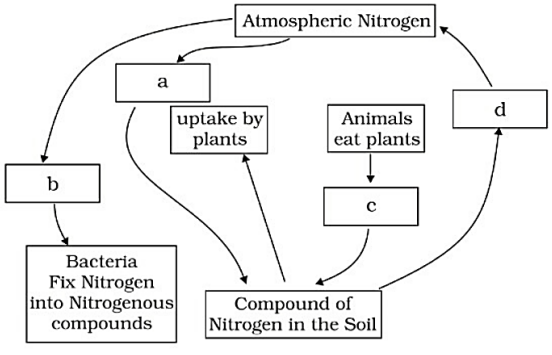
(e) Both Assertion (A) and Reason (R) are incorrect.

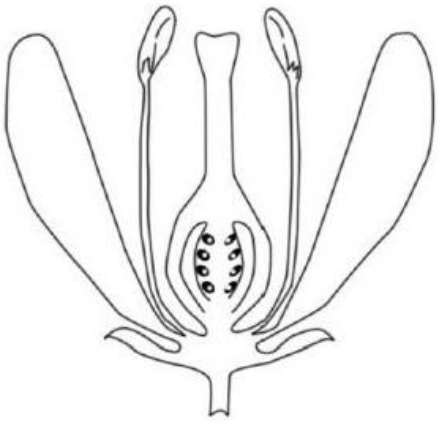
Q13.	**Assertion: Magnesium is a silvery white metal, but it becomes dull when it exposed to air.** ☐ **Reason: The dullness of magnesium is due to the coating of dust or a layer of oxide on it.**	**(1)**
Q14.	**Assertion: A MCB is generally used in place of fuses.** ☐ **Reason: Resistance decreases when we use a thick wire.**	**(1)**
Q15.	**Assertion: Some clocks use quartz crystals.** ☐ **Reason: Atoms and molecules of substances vibrate about a mean position.**	**(1)**

SECTION D

Q16. **Complete the following cycle given as figure by filling the blanks (a), (b), (c) (d)** **(0.5 X 4 = 2)**

a _____
b _____
c _____
d _____



Q17.	**In the figure of a flower given below, label the parts whose functions are given below and give their names.** **(a) The part which contains pollen grains.** **(b) The part where the female gamete is formed.** **(c) The female reproductive part, where pollen grains germinate.** **(d) The colourful part of flower which attracts insects** 	**(0.5 X 4 = 2)**