

CLASS – VII
MID TERM EXAMINATION (2023-24)
SUBJECT: SCIENCE
SET C1

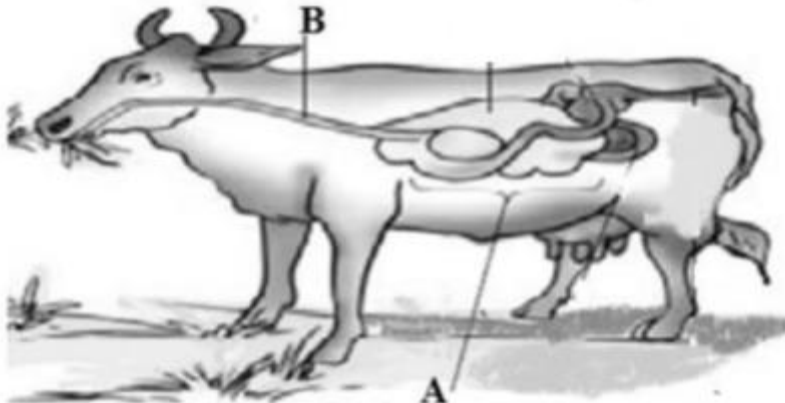
Time Allowed: 2 ½ hours**Max Marks: 60****Instructions:**

- This paper comprises of 14 questions.
- **Section A** – Q. No. 1 to 5 – all parts of these questions carry 1 mark each.
- **Section B** – Q. No. 6 to 9 carry 2 marks each.
- **Section C** – Q. No. 10 to 12 carry 3 marks each.
- **Section D** – Q. No. 13 to 14 carry 5 marks (with one choice) each.
- Draw neat and labelled diagram wherever required (with pencil).
- Attempt all questions in order.

SECTION A (1 MARK)

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Q1	<p>Choose the correct option:</p> <p>a) <i>Cuscuta</i> is an example of:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>i) Autotroph</p> <p>iii) Saprotroph</p> </div> <div style="width: 45%;"> <p>ii) Parasite</p> <p>iv) Host</p> </div> </div> <p>b) Water from the undigested food is absorbed mainly in the</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>i) Food pipe</p> <p>iii) Large intestine</p> </div> <div style="width: 45%;"> <p>ii) Small intestine</p> <p>iv) Stomach</p> </div> </div> <p>c) The normal temperature of a healthy person is 37° on</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>i) Kelvin scale</p> <p>iii) Fahrenheit scale</p> </div> <div style="width: 45%;"> <p>ii) Celsius scale</p> <p>iv) both (ii) and (iii)</p> </div> </div> <p>d) The acid present in lemons is</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>i) Oxalic acid</p> <p>iii) Citric acid</p> </div> <div style="width: 45%;"> <p>ii) Acetic acid</p> <p>iv) Tartaric acid</p> </div> </div> <p>e) During exhalation, the ribs</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>i) Move outwards</p> <p>iii) Move upwards</p> </div> <div style="width: 45%;"> <p>ii) Move downwards</p> <p>iv) Do not move at all</p> </div> </div> <p>f) An electric fuse works on the:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>i) Chemical effect of current</p> <p>iii) Magnetic effect of current</p> </div> <div style="width: 45%;"> <p>ii) Lightning effect of current</p> <p>iv) Heating effect of current</p> </div> </div>	(1×6= 6)

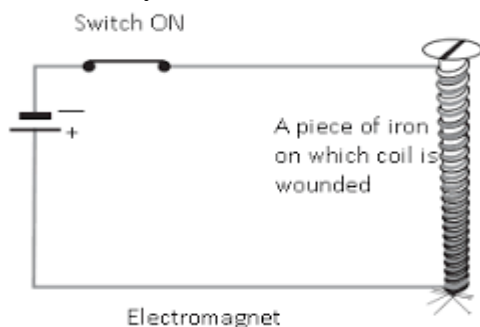
Q2	Fill in the blanks: <ol style="list-style-type: none"> A cold steel spoon is dipped in a cup of hot milk. Heat is transferred to its other end by the process of _____. Substances which are neither acidic nor basic are called _____. _____ are substances used to test whether a substance is acidic or basic. The food synthesized by plants is stored as _____. _____ are tiny pores on the leaf surface for exchange of gases. <i>Amoeba</i> captures its food with the help of its _____. _____ coloured clothes are preferred during winter. _____ is partially digested food in the Rumen part of stomach in Ruminants. _____ in fish help them to use oxygen dissolved in water. _____ are small openings on the sides of the body of an insect through which air enters. When current is switched 'on' in a room heater, it becomes _____. Longer line in the symbol for a cell represents its _____ terminal. 	(1×12=12)
Q3	State True (T) or False (F) for the given statements: <ol style="list-style-type: none"> The tongue helps in mixing food with saliva. Temperature of boiling water can be measured by a clinical thermometer. Tooth decay is caused by the presence of a base. Plants with red and brown coloured leaves cannot perform photosynthesis. Land breeze blows during night time. Window cleaner contains Ammonium Hydroxide as a base. To make a battery of two cells, the negative terminal of one cell is connected to the negative terminal of the other cell. Plants carry out photosynthesis only during the day and respiration only at night. 	(1×8= 8)
Q4	Answer in one word: <ol style="list-style-type: none"> Degree of hotness of the body. The complex carbohydrate digested by ruminants. The reaction between an acid and a base in which salt and water are produced with the evolution of heat. A plant that is partially autotrophic. A large muscular sheet which forms the floor of chest cavity. Combination of two or more cells in a circuit. 	(1×6= 6)

Q5	<p>In the question given below, two statements are given; one is labelled as Assertion (A) and the other is labelled as Reason (R).</p> <p>ASSERTION (A): An iron ball at 70°C is dropped in a mug containing water at 40°C. The heat flows from the iron ball to the water.</p> <p>REASON (R): Heat always flows from a body at a high temperature to a body at a low temperature.</p> <p>Read the statements carefully and choose the correct answer of the question.</p> <p>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.</p>	1
SECTION B (2 MARKS)		
Q6	Draw a circuit diagram (not picture drawing) to show a cell, one switch, a glowing electric bulb and direction of electric current.	2
Q7	Name the source from which litmus solution is obtained. What is the use of this solution?	2
Q8	<p>Identify the different labelled parts ('A' and 'B') of the digestive system of a ruminant.</p> 	2
Q9	Give the composition of oxygen and carbon dioxide in inhaled and exhaled air.	2
SECTION C (3 MARKS)		
Q10	<p>Read the given passage and answer Q10 (a) to Q10 (c), based on the passage and related studied concepts:</p> <p>Heat flow takes place from one body to the other having different temperatures. Light a candle. Keep one hand above the candle flame and one hand on the side of the flame as shown in the diagram below.</p>	3

Q14

- a) The device shown in the figure below is an electromagnet. Name the property on which this device is based. Mention any two uses of this device in our daily life.

5



- b) Boojho made an electromagnet by winding 50 turns of wire over an iron screw. Paheli also made an electromagnet by winding 100 turns over a similar iron screw. Which electromagnet will attract more pins? Give reasons.

OR

- a) Zubeda made an electric circuit using a battery of two cells, a switch, connecting wires and a bulb. When she put the switch in the 'ON' position, the bulb did not glow. Help Zubeda in identifying any three possible defects in the circuit.
- b) State any two factors on which the amount of heat produced in a wire depends.