



INDIAN SCHOOL MUSCAT
FIRST SUMMATIVE ASSESSMENT (2016-2017)
SCIENCE

Class: VII
25 – 09 – 2016

SECTION- 1 (Marks: 20)

Time: 2 Hrs
Max Marks: 60

Answer the following Questions on the Answer sheet provided.

Q1. Fill in the blanks. (5 marks)

1. A substance formed when two or more elements combine chemically is called _____.
2. In Fahrenheit scale, the boiling point of water is _____ °F.
3. The relative humidity of the air is measured by an instrument called a _____.
4. Air is carried to all the body parts of an insect through tubes called _____.
5. Storms are called _____ in North America.

Q2. Choose the best option. (5 marks)

1. Fungus is an example for
(a) Saprophytic plant (b) parasitic plant (c) Insectivorous plant (d) Symbiotic plant
2. Which one of the following is the symbol of an element?
(a) CO (b) Ca (c) H₂O (d) HCl
3. The climate of a place depends on
(a) latitude (b) height above sea level (c) distance from the sea (d) all of these
4. The intake of air rich in oxygen by organisms is called
(a) inhalation (b) exhalation (c) breathing (d) respiration

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5. The heating effect of electric current is used in

(a) telephones (b) electric bell (c) electric iron box (d) loud speaker

Q3. Say true or false. (5 marks)

1. Carbon dioxide is absorbed by the chlorophyll.
2. Hydrogen is a diatomic molecule.
3. Digital thermometers do not use mercury.
4. In the symbol of a cell, the shorter line denotes the positive terminal.
5. The two important characteristics of wind are speed and direction.

Q4. Name the following. (5 marks)

1. Structures that carry water and minerals from the roots to the leaves of a plant.
2. The primary mode of heat transfer in fluids.
3. The mass movement of birds or animals from one place to another.
4. Dome-shaped muscle in the chest cavity that helps in the contraction and expansion of the lungs.
5. Rotating winds formed over sea.

SECTION – II (MARKS: 40)

**NOTE: Questions Q5 to Q13 carry one mark each.
Questions Q14 to Q22 carry two marks each.
Questions Q23 to Q25 carry three marks each.
Question Q26 carries four marks.**

Q5. What are symbiotic plants?

Q6. What can you do to reduce the level of browning of the cut surfaces of vegetables?

Q7. Why do penguins huddle together?

Q8. Complete the following word equation for anaerobic respiration.

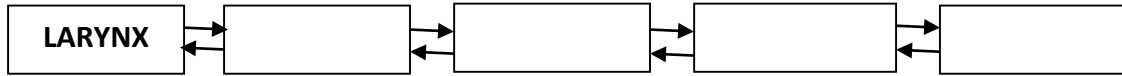
Sugar \longrightarrow Energy + _____ + _____

Q9. List any one safety measure to be taken when there is a cyclone warning.

- Q10. A stainless steel spoon becomes hot when left in the hot soup. How does this happen?
- Q11. The inner surface of the inner wall of a thermos flask is made highly reflective. Why?
- Q12. What is a solenoid?
- Q13. The wire in an electric fuse is made up of a material that melts easily. Why?
- Q14. List the conditions necessary for photosynthesis.
- Q15. Two identical bricks **A** and **B** each having a temperature of 25°C were kept in the sunlight. After half an hour, the temperature of **A** was found to be 40°C and that of **B** was found to be 35°C . What might be the reason for this difference in the temperature?
- Q16. Why do iron fillings acquire a brown colour when dropped in copper sulphate solution? Write the word equation for this reaction.
- Q17. (a) Write the chemical name for common salt.
(b) Which are the elements present in the common salt?
- Q18. (a) How do roots of plants get oxygen needed by them for breathing?
(b) Insects do not die even if their head is kept immersed in water. Why?
- Q19. Akhil made two electromagnets. One had 50 turns of wire over an iron screw. The other one had 120 turns of over a similar iron screw. Which electromagnet will attract more pins? Give reason.
- Q20. If the earth's imaginary axis were to be vertical instead of being inclined, how would it affect the seasons?
- Q21. Write any two adaptations of kangaroo rats to survive in the hot desert climates.
- Q22. Roofs of huts get blown off during storms. Give reason.
- Q23. a) What is the difference between saprophytic plants and parasitic plants? Give one example for each.
b) Mushrooms are not green. Why?
- Q24. (a) What is the purpose of the kink in a mercury clinical thermometer?
(b) Write two advantages of an alcohol thermometer over a mercury thermometer.

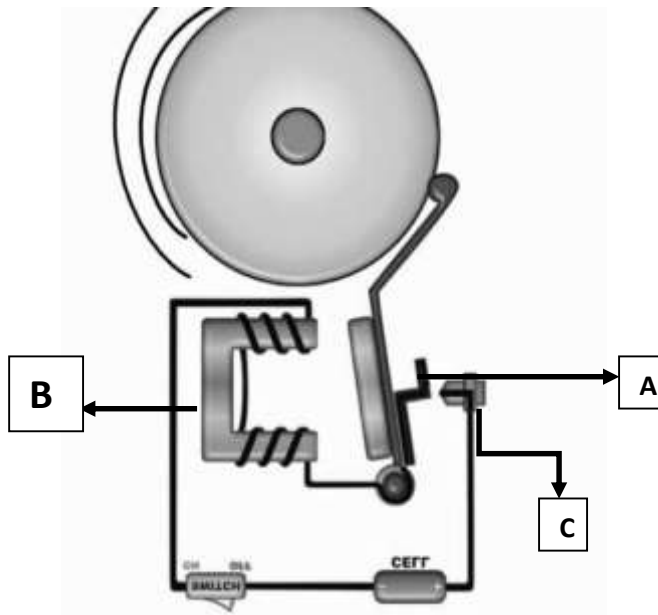
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Q25. (a) Complete the following order of organs through which air passes during breathing



(b) What is the function of hair and mucus present in the nose?

Q26. Observe the diagram of an electric bell and answer the following.



(a) Identify the parts marked **A** and **B**.

(b) Identify **C** and write its function.

(c) What is the purpose of an electromagnet in an electric bell?

(d) Name **two** devices other than electric bell that make use of electromagnets
