KENDRIYA VIDYALAYA KHAMMAM
FORMATIVE ASSESSMENT –I (2015-2016)

CLASS-X   **TIME: 90 Min**

SUBJECT SCIENCE   **Max Marks: 40**

Instructions:

The question paper has 17 questions in all.

Questions 1-5 are 1 mark questions; 6-10 are 2 mark questions;

11-15 are 3 mark questions; 16 & 17 are 5 mark questions.

Marks are indicated at the end of each question

Draw diagrams wherever necessary.

1. Define the unit of current. 1M
2. Write the magnitude of charge of one electron. 1M
3. Identify the substance oxidized and reduced in the following equation.   1M

   $$ZnO + C \longrightarrow Zn + CO$$

4. What is blood?   1M
5. Name the stored food in our body? 1M
6. Define Resistivity of a conductor. 2M
7. What do you mean by exothermic reaction? Give an example. 2M
8. Write the balanced chemical equation and identify the type of the reaction. 2M

   a) Iron reacts with Copper Sulphate to form Ferrous Sulphate and Copper.

9. Draw the neat labelled diagram of open stomata and closed stomata. 2M
10. What are the main differences between Aerobic respiration and anaerobic respiration? 2M
11. State and Explain Ohm's law. 3M
12. Write any three factors on which the resistance of conductor depends? 3M
13. Consider the circuit diagram given below 3M

    If $R_1=R_2=R_3=R_4=3$ Find the net resistance (equivalent resistance) of the circuit.

14. Explain the following terms. 3M

    i) Corrosion   ii) Rancidity

15. What are the three events that occur during Photosynthesis? 3M
16. a) When copper powder is added in a china dish, its surface becomes coated with black colored substance.

    i) Why this black colored substance formed? 1M

    ii) Identify the black substance. 1M

    iii) Write the balanced chemical equation that takes place during the reaction. 1M

    b) What is meant by photochemical decomposition reaction? Give an example. 2M

17. a) Draw a neat labelled diagram of human digestive system. 3M

    b) Point out differences between an artery and vein. 2M

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1. Write S.I unit for acceleration. 1M
2. Give one example for vector quantity. 1M
3. Convert 300K into Celsius scale and 100^0C into Kelvin scale. 1M
4. What is meant by 'Osmosis'?   1M
5. Which is the power house of the cell? 1M
6. What is the nature of distance- time graph of uniform motion and non-uniform motion of an object? 2M
7. Mention the physical quantities and the manner in which these need to be altered for liquefying gases. 2M
8. Define the term sublimation. Write the names of any two substances which sublime. 2M
9. How is prokaryotic cell different from the eukaryotic cell? 2M
10. How many types of plastids are there in a plant cell? Name them and explain them. 2M
11. Define velocity and write its S.I units. 3M
12. Derive the equation $S = ut + \frac{1}{2} at^2$ by graphical method. 3M
13. An athlete completes one round of a circular track of diameter 200m in 40s. What will be the distance covered and the displacement at the end of 2 min.20 sec? 3M
14. Explain the following:
    a) Gases exert pressure on the walls of the container.
    b) Water is a liquid at room temperature.
    c) Evaporation causes cooling. 3M
15. Why Plasma membrane called a selectively permeable membrane. 3M
16. a) Tabulate the differences between solids, liquids and gases on the basis of
    i)Volume   ii) shape   1M
    b) Define latent heat of fusion. 1M
    c) Name the process in which gas changes to liquid. 1M
    d) What is the physical state of water at 100^0C and $25^0 C$ 1M
    e) List two factors on which rate of evaporation depends. 1M
17. a) Draw Neat labelled diagram of a plant cell. 3M
    b) Why are lysosomes are called called 'SUICIDE BAGS' of the cell. 2M