

FORMATIVE ASSESSMENT – SECOND MID TERM**SCIENCE****Max. Marks: 50****Std - VI****Time: 2 Hrs**

Name of the School: _____	Name of the Student: _____
Place: _____	Roll No.: _____

I. Choose the correct answer:**5 x 1 = 5**

- Heat energy causes
a) expansion b) change of state c) chemical change d) all
- Unit for measuring heat energy is
a) calorie b) kilogram c) square meter d) cc
- Beating of the heart is a
a) periodic b) non-periodic c) man-made d) exothermic
- The unit of measurement used for expressing dimension (size) of cell is
a) centimeter b) millimeter c) micrometer d) meter
- Which one of the following is not a unicellular organism
a) Yeast b) Amoeba c) Spirogyra d) Bacteria

II. Fill in the blanks:**5 x 1 = 5**

- Thermal expansion in gases are _____ than in liquids.
- A change that absorbs heat is called a _____ change.
- A _____ solution contains a maximum quantity of solute at a particular temperature.
- The human body is mostly composed of _____.
- Smooth endoplasmic reticulum do not have _____ on them.

III. Short answer:**7 x 2 = 14**

- Who am I?
a) I am a shiny liquid used in thermometers.
b) I am the standard unit of temperature.
- Circle the odd one and give reason.
a) Bursting of crackers, burning of paper, Bursting of a balloon, germination of seed.
b) Melting, condensation, freezing, rusting.
- Analogy.
a) Breaking of glass irreversible change:: _____ : reversible change.
b) Glucose in water endothermic:: soap in water : _____.
- State if the following statements are true or false. Correct the false statement.
a) Ribosomes help in lipid synthesis.
b) Cell wall is semi permeable.

15. Arrange in correct sequence.
 - a) Mango tree, Bacteria, Spirogyra
 - b) Hen Egg, Ostrich Egg, Insect Egg
16. Temperature determines the direction of flow of heat. Answer the following questions.
 - a) You are holding a hot cup of tea in your hand, would the heat energy transfer from your body to the cup or from the cup to your body?
 - b) You are standing outside on a winter day. It is 23°C outside. Would the heat energy transfer from your body to the air particles or from the air particles to your body?
17. Analogy:
 - a) Prokaryote: Cyanobacteria :: Eukaryote: _____.
 - b) Amoeba: unicellular :: Monkey: _____.

IV. Match the following:

5 x 1 = 5

- | | |
|-------------------------|------------------------------|
| 18. Heat | – Cracking of wall in summer |
| 19. Thermal equilibrium | – Kelvin |
| 20. Heat transfer | – No heat transfer |
| 21. Temperature | – Hot to cold |
| 22. Expansion | – Joule |

V. Answer briefly: (Any 4)

4 x 4 = 16

23. Give four uses of solar energy.
24. Differentiate between physical and chemical changes.
25. How do you classify changes based on their use? Give one example for each type.
26.
 - a) What are colourless plastids called?
 - b) What is the difference between vacuoles in plant and animal cells?
27.
 - a) Name the cell organelle that is found only in plant cells.
 - b) Which is the outer most layer of an animal cell?
28. Draw the diagram of an animal cell and label the parts.

VI. Answer in detail: (Any 1)

1 x 5 = 5

29.
 - a) How are metal rims fixed to the wheels of bullock carts?
 - b) What is heat?
30. What are the components of a solution? Explain each of them.
31.
 - a) Lysosomes are known as suicide bags of the cell. Why?
 - b) What is the difference between vacuoles in plant and animal cells?