

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

Name of the School: <hr/>	Name of the Student: <hr/>
Place: <hr/>	Roll No.: <hr/>

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

1. Heat energy causes

a) expansion	b) change of state	c) chemical change	d) all
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2. Unit for measuring heat energy is

a) calorie	b) kilogram	c) square meter	d) cc
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3. Beating of the heart is a

a) periodic	b) non-periodic	c) man-made	d) exothermic
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4. The unit of measurement used for expressing dimension (size) of cell is

a) centimeter	b) millimeter	c) micrometer	d) meter
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5. Which one of the following is not a unicellular organism

a) Yeast	b) Amoeba	c) Spirogyra	d) Bacteria
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II. Fill in the blanks:**5 x 1 = 5**

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

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

11. Who am I?
 - a) I am a shiny liquid used in thermometers.
 - b) I am the standard unit of temperature.
12. 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.
13. Analogy.
 - a) Breaking of glass irreversible change:: _____: reversible change.
 - b) Glucose in water endothermic:: soap in water : _____.
14. 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.

- Mango tree, Bacteria, Spirogyra
- Hen Egg, Ostrich Egg, Insect Egg

16. Temperature determines the direction of flow of heat. Answer the following questions.

- 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?
- 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:

- Prokaryote: Cyanobacteria :: Eukaryote: _____.
- 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

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

VI. Answer in detail: (Any 1)

1 x 5 = 5

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