

SUMMATIVE ASSESSMENT – SECOND TERM**SCIENCE****Max. Marks: 60****Std - VII****Time: 2 Hrs****I. Choose the correct answer:****12 x 1 = 12**

1. The kink in a thermometer helps prevent _____
 - a) immediate back rush of the liquid
 - b) error in taking readings
 - c) both a and b
 - d) none of these
2. SI unit of measuring temperature is _____
 - a) Kelvin
 - b) Joule
 - c) Celsius
 - d) Fahrenheit
3. A very small amount of current is called microampere (μA). How many microamperes are there in 2A?
 - a) $2 \times 10^6\text{A}$
 - b) $2 \times 10^5\text{A}$
 - c) $2 \times 10^{-6}\text{A}$
 - d) $2 \times 10^{-5}\text{A}$
4. Which of the following statements is false with respect to primary cells?
 - a) they are chemical cells
 - b) they deliver current for a long time
 - c) they cannot be recharged
 - d) chemical reaction is irreversible
5. On adding baking soda to lemon juice _____ is formed.
 - a) oxygen
 - b) carbon dioxide
 - c) nitrogen
 - d) hydrogen
6. _____ is a reversible process.
 - a) Melting
 - b) Burning
 - c) Fermentation
 - d) Rusting
7. The cell _____ is semi-permeable and regulates the substances that enter and exit the cell.
 - a) wall
 - b) membrane
 - c) both a and b
 - d) none of these

8. The _____ is the smallest part of the body of any living organism that is capable of existing independently.
- a) cell b) tissue c) both a and b d) none
9. Pisces are _____ organisms.
- a) cold-blooded b) warm-blooded c) both a and b d) none
10. Yeast belongs to the kingdom _____
- a) plantae b) fungi c) animalia d) monera
11. An animal with its body covered with hair and fur and with sweat glands belongs to the class _____
- a) symbiosis b) parasitism c) reptilia d) pisces
12. Ribosomes are present on the _____ endoplasmic reticulum.
- a) rough b) smooth c) none d) both a and b

II. Answer the following: (Any 14)

14 x 2 = 28

13. State two advantages of a digital thermometer.
14. Fill in the blanks with the correct word/phrase.
- i) Zero Kelvin is called the _____
- ii) There is a kink in a _____ thermometer to avoid the back flow of the mercury.
15. What are the characteristics of a good thermometric liquid?
16. Define resistivity and conductivity.
17. Name a few subatomic particles.
18. How is a primary cell different from a secondary cell?
19. What are physical changes? Give two examples.
20. Explain how clouds are formed.
21. State true (or) false.
- a) Evaluation of heat is an indicator of a physical change.
- b) Physical changes are always irreversible changes.

22. Analogy.
- a) animal cells: centrioles: plant cells: _____
- b) lysosome: suicidal bag: nucleus: _____
23. Why do plant cells have a regular shape?
24. How are cells interconnected?
25. Match the following:
- a) euglena - plantae
- b) bacteria - fungi
- c) pinus - monera
- d) penicillium - protista
26. Place the following organism under the correct phylum
- (hydra, sponges, housefly)

Organism	Phylum
_____	arthropoda
_____	coelenterata

27. Give examples of organisms belonging to the Kingdom Monera.
28. Define classification.
29. Assertion (A): The dichotomous key is one of the tools used to identify and classify organisms.

Reason (R): It can only be used to classify animals.

- a) Both assertion and reason are true, and the reason is the correct explanation of the assertion.
- b) Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
- c) The assertion is true, but the reason is false.
- d) The assertion is false, but the reason is true.

III. Answer in detail:

4 x 5 = 20

30. a) Differentiate between analog and digital thermometers.

(or)

b) With suitable examples explain the different effects of electric current.

31. a) What are the characteristics of chemical changes?

(or)

b) Explain endothermic and exothermic changes using an example each.

32. a) Why is the mitochondria known as the powerhouse of the cell?

(or)

b) List out the ground rules of binomial nomenclature.

33. a) Describe the structure and function of the nucleus.

(or)

b) Give any three reasons. Why classification is so important to us?