

**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 ( $\mu$ A). How many microampères are there in 2A?
  - a)  $2 \times 10^6$ A
  - b)  $2 \times 10^5$ A
  - c)  $2 \times 10^{-6}$ A
  - d)  $2 \times 10^{-5}$ 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?