

**SUMMATIVE ASSESSMENT – FIRST TERM****SCIENCE****Max. Marks: 100****Std - VIII****Time: 2.30 Hrs****I. Choose the best answer:****13 x 1 = 13**

1. Luminous intensity is the intensity of \_\_\_\_\_  
 a) laser light      b) UV light      c) visible light      d) IR light
2. Electric current is a \_\_\_\_\_ quantity.  
 a) base      b) supplementary      c) derived      d) professional
3. Pascal's law is used in \_\_\_\_\_  
 a) hydraulic lift      b) brake system  
 c) pressing heavy bundles      d) all the above
4. The property of \_\_\_\_\_ of a liquid surface enables the water droplets to move upward in plants.  
 a) surface tension      b) viscosity      c) pressure      d) increased speed
5. Pencil lead contains \_\_\_\_\_  
 a) graphite      b) lead      c) aluminium      d) sulphur
6. The symbol of Tungsten is \_\_\_\_\_  
 a) Au      b) Hg      c) W      d) Mg
7. Dissolved gases like sulphur dioxide and nitrogen oxide in rainwater cause \_\_\_\_\_  
 a) acid rain      b) base rain      c) heavy rain      d) neutral rain
8. The plant body of algae is called as \_\_\_\_\_  
 a) stem      b) thallus      c) leaf      d) root

9. Penicillin is an antibiotic that is extracted from \_\_\_\_\_  
a) algae      b) fungi      c) bryophytes      d) pteridophytes

10. \_\_\_\_\_ is a tough and thick white sheath that protects the inner parts of the eye.  
a) sclera      b) conjunctiva      c) cornea      d) Iris

11. Soil erosion is prevented by \_\_\_\_\_ plants.  
a) algae      b) fungi      c) bryophytes      d) pteridophytes

12. The erythrocyte is placed in \_\_\_\_\_ solution. Which has lesser concentration of solutes and greater concentration of water than in the cytoplasm.  
a) hypotonic      b) hypertonic      c) neutral      d) acidic

13. \_\_\_\_\_ cells are specialised cells that can be transformed into any kind of cells.  
a) Nerve      b) Stem      c) Heart      d) Bone

## II. Fill in the blanks:

**10 x 1 = 10**

14. The intersection of two straight lines gives us \_\_\_\_\_.

15. Hydraulic lift works under the principle of \_\_\_\_\_.

16. If two mirrors are parallel to each other, then the number of images formed is \_\_\_\_\_.

17. Melting point of most metals is \_\_\_\_\_ than non-metal.

18. \_\_\_\_\_ is the basic material to manufacture urea.

19. \_\_\_\_\_ is a chemical substance that alters the speed of a chemical reaction.

20. Bacteria that have a flagellum at one end are classified as \_\_\_\_\_.

21. The reserve food material of fungi are \_\_\_\_\_ and \_\_\_\_\_.

22. Xylem and phloem are absent in \_\_\_\_\_ plants.

23. \_\_\_\_\_ nerve is located at the end of the eyes behind the retina.

**III. a) Match the following: 5 x 1 = 5**

24. Temperature	- making the filament of a bulb
25. Barometer	- atoms of different kinds
26. Tungsten	- 3 oxygen atoms
27. Compound	- atmospheric pressure
28. Ozone	- measure of hotness (or) coldness

**b) Match the following: 5 x 1 = 5**

29. Nitrogen-fixing bacteria	- Amino acid
30. Edward Jenner	- Glycogen and other sugar
31. Laminaria	- Rhizobium
32. Glucose	- Vaccine
33. Protein	- Iodine

**IV. Answer the following questions: (Any 13) 13 x 2 = 26**

34. Define one ampere.
35. One day, the minimum temperature in Bombay was recorded as 80.6°F. What was the temperature in degrees celsius of Bombay on that day.
36. Why are bags provided with broad straps?
37. A stone weight 500N. Calculate the pressure exerted by it if it makes a contact with a surface of area 25cm<sup>2</sup>.
38. State the laws of reflection.
39. Give two examples of metalloids.
40. Why are bells made of metal?
41. List any 3 causes of pollution.
42. Define enzymes.
43. State true or false. If false, correct the statement.
  - a) Yeast is used in the large-scale production of alcohol.
  - b) Chicken pox is a communicable disease.
44. Which diseases can be prevented by vaccination?
45. Assertion (A): Bryophytes are called Amphibians of the plant kingdom.

Reason (R): Bryophytes are land plants but they need water for the completion of their life cycle.

**V. Answer the following questions very briefly: (Any 8)**

$$5 \times 4 = 20$$

50. What are the differences between plane angle and solid angle?
51. State Pascal's Law. Write down three applications of Pascal's Law.
52. Explain the working of a periscope.
53. State the uses of the following compounds.
  - a) baking soda
  - b) bleaching powder
  - c) quick lime
54. How does rusting of iron take place? Why is it dangerous?
55. Why are microorganisms essential for agriculture?
56. Differentiate between Gymnosperms and Angiosperms.
57. Draw the V.S. of the human eye and label its parts.

## VI. Answer in detail:

$$3 \times 7 = 21$$

58. a) List out the base quantities with their units.  
(or)  
b) What is reflection? Write short notes on regular and irregular reflection.

59. a) Tabulate five points of difference between metals and non metals.  
(or)  
b) Explain the three types of pollution.

60. a) Write a short note on bacteria and its structure.  
(or)  
b) Write the names of medicinal plants and explain their uses.