

**SUMMATIVE ASSESSMENT – FIRST TERM****SCIENCE****Max. Marks: 100****Std - VIII****Time: 2:30 Hrs****I. Choose the correct answer:****10 x 1 = 10**

1. The SI unit of temperature is _____.
a) Celsius b) Fahrenheit c) Kelvin d) Ampere
2. Which of the following liquids has higher viscosity?
a) Grease b) Water c) Coconut d) Ghee
3. The spherical mirror used as a rear view mirror in vehicles is _____.
a) concave mirror b) convex mirror c) plane mirror d) none of the above
4. The refractive index of water is _____.
a) 1.0 b) 1.44 c) 1.52 d) 1.33
5. A form of non-metal that has high ductility is _____.
a) oxygen b) chlorine c) carbon d) nitrogen
6. _____ metal undergoes rusting.
a) Iron b) Sodium c) Tin d) Copper
7. Limestone contains mainly _____.
a) calcium chloride b) calcium nitrate
c) calcium carbonate d) calcium sulphate
8. Microorganisms are measured in _____.
a) mm b) cm c) meter d) micron
9. Soil erosion is prevented by _____ plants.
a) algae b) fungi c) bryophytes d) pteridophytes
10. In the absence of oxygen, glucose is broken down into _____.
a) lactic acid b) citric acid c) acetic acid d) nitric acid

II. Fill in the blanks:**10 x 1 = 10**

11. _____ is a good example for anaerobic respiration.
12. Brown algae belongs to _____ class.
13. The first true land plants are _____.
14. Microorganisms can be seen with the help of a _____.

15. _____ is the basic material to manufacture urea.
16. _____ is the non-metal used in the semiconductor industry.
17. Nature of the images formed by a convex mirror is _____.
18. Hydraulic lift works under the principle of _____.
19. Quartz clock uses _____ oscillations.
20. Agar Agar is obtained from _____ algae.

III. State True or False:

7 x 1 = 7

21. In gymnosperms ovules are developed from the flowers.
22. The larynx has folds of tissue that vibrates with passage of air to produce sound.
23. Chicken pox is a communicable disease.
24. Coal can be drawn into wires.
25. Formation of slaked lime from quicklime is an endothermic reaction.
26. Rolling friction is slightly greater than the sliding friction.
27. Quartz clocks are used in GPS device.

IV. Match the following:

7 x 1 = 7

- | | | |
|-------------------------|---|---------------------------|
| 28. protein | - | atoms of different kinds |
| 29. probiotics | - | atoms of the same kind |
| 30. Edward Jenner | - | reduce friction |
| 31. element | - | amino acid |
| 32. compound | - | kaleidoscope |
| 33. multiple reflection | - | vaccine |
| 34. lubricants | - | lactobacillus acidophilus |

V. Answer the following questions: (Any 10)

10 x 2 = 20

35. Why is human eye compared to a camera?
36. Write any two characters of pteridophytes.
37. Why are microorganisms essential for agriculture?
38. Define: a) Catalyst b) Enzymes
39. Write the constituent elements and their symbols for the following compounds:
a) Carbon monoxide b) Washing soda
40. Define: a) focal length b) radius of curvature
41. Squeezing toothpaste out of a tube is an example of which physical property?
42. What are the differences between a plane angle and a solid angle?

43. The radius of curvature of a spherical mirror is 25 cm. Find its focal length.
44. What is pollution? List any 3 causes of pollution.
45. Write any two examples of the economic importance of fungi.
46. Write any two properties of metalloids.

VI. Answer briefly: (Any 5)

5 x 4 = 20

47. Write any four differences between metals and non metals.
48. Write a short note on common human diseases caused by microorganisms.
49. i) How many classes are there in bryophytes? What are they?
ii) Define Thallus.
50. Write the differences between inhalation and exhalation.
51. i) List out the base quantities with their units.
ii) What are measurement errors?
iii) What is a photometer?
52. i) Write down three ways of minimizing friction.
ii) Which has greater viscosity, oil or honey? Why?
53. Define: (i) convex mirror (ii) concave mirror
54. Explain how food items are spoilt due to chemical reactions. How can this be avoided?

VII. Answer in detail: (Any 3)

3 x 7 = 21

55. Write the names of medicinal plants and explain their uses.
56. i) Write a short note on bacteria and its structure.
ii) Write the four types of bacteria based on their shapes.
57. i) Give an account of energy release in chemical reaction.
ii) State the uses of the following compounds.
a) baking soda b) bleaching powder c) quick lime
58. What is refraction? State Snell's law of refraction with a neat labelled diagram.
59. Define friction. Give the different types of friction and explain each with an example.

VIII. 60. Draw and label the parts of a human eye:

5 marks