

**I Choose the correct answer.**

1. Electric current is a ..... quantity.
  - a) base
  - b) supplementary
  - c) derived
  - d) professional
2. Pascal's law is used in
  - a) hydraulic lift
  - b) brake system
  - c) pressing heavy bundles
  - d) all the above
3. If the focal length of a spherical mirror is 10cm, what is the value of its radius of curvature?
  - a) 10cm
  - b) 5cm
  - c) 20cm
  - d) 15cm
4. If the angle of incidence is  $40^\circ$ , then the angle of reflection is .....
  - a)  $10^\circ$
  - b)  $40^\circ$
  - c)  $20^\circ$
  - d)  $90^\circ$
5. The process of converting a liquid into solid is called .....
  - a) sublimation
  - b) condensation
  - c) freezing
  - d) deposition
6. Symbol of mercury is .....
  - a) Ag
  - b) Hg
  - c) Au
  - d) Pb
7. The pigment responsible for browning of apple is .....
  - a) hydrated iron III oxide
  - b) melanin
  - c) starch
  - d) ozone
8. Brine is a concentrated solution of .....
  - a) sodium sulphate
  - b) sodium chloride
  - c) calcium chloride
  - d) sodium bromide
9. Aerated water contains
  - a) air
  - b) oxygen
  - c) carbon di oxide
  - d) nitrogen
10. Which of the following is known as azote?
  - a) Oxygen
  - b) Nitrogen
  - c) Sulphur
  - d) Carbon di oxide
11. Based on shape, the bacteria are classified into ..... types.
  - a) two
  - b) three
  - c) four
  - d) five
12. Common cold in human is caused by .....
  - a) plasmodium
  - b) influenza
  - c) vibrio cholera
  - d) aphtho virus
13. Plants that prevent soil erosion are
  - a) algae
  - b) fungi
  - c) bryophytes
  - d) pteridophytes
14. Binomial Nomenclature was first introduced in the year?
  - a) 1970
  - b) 1975
  - c) 1978
  - d) 1623
15. Maintenance of constant internal environment of the body is known as .....
  - a) homeostasis
  - b) homeophytes
  - c) homeokinesis
  - d) homeophilics

**II Fill in the blanks :****10 X 1 = 10**

16. The closeness of the measured value to the original value is .....
17. The property of ..... of a liquid surface enables the water droplets to more upward in plants.
18. The spherical mirror used as a rear view mirror in the vehicle is .....
19. A thermostat is a device which maintains .....
20. .... is used as semiconductor.
21. Photosynthesis is the chemical reaction that takes place in the presence of .....
22. Dry ice is used as a .....
23. Micro organism can be seen with the help of a .....
24. .... plant is used for the treatment of Jaundice.
25. The largest cell is egg of an .....

**III Match the following.****10 X 1 = 10**

- |                    |   |                               |
|--------------------|---|-------------------------------|
| 26. Nitrogen       | - | Respiration in living animals |
| 27. Oxygen         | - | Fire extinguisher             |
| 28. Carbon dioxide | - | Atmospheric pressure          |
| 29. Barometer      | - | Fertilizer                    |
| 30. Yeast          | - | Coolent                       |
| 31. Dry ice        | - | Bacteria                      |
| 32. Tuberculosis   | - | Blue green Algae              |
| 33. Cyanophyceae   | - | Amino Acid                    |
| 34. Protein        | - | Glucose                       |
| 35. Carbohydrate   | - | Bio catalyst                  |

**IV State true or false.****5 X 1 = 5**

36. The number 4.582 can be rounded off as 4.58.
37. The colourful image patterns formed by in Kaleidoscope is due to reflection.
38. CFC is a pollutant.
39. Chicken pox is a communicable disease.
40. Pinus is closed seeded plant.

**V Answer any fifteen questions.****15 X 2 = 30**

41. Define - mole.
42. What is measurement?
43. Define - one atmospheric pressure.
44. State Pascal's law and mention its application.
45. State laws of reflection of light
46. Give any two applications of a concave and convex mirror.
47. Why are bells made of metals?
48. Name the elements with the following symbols. a) Na b) Ba c) W d) Al
49. What is conduction?
50. Define one calorie.
51. What is pollution?
52. What is tarnishing? Give an example.
53. What are pathogens?
54. Write the four types of bacteria, based on their shape.
55. Write any two characters of decotyledons.
56. What is meant by binomial nomenclature? Give example.
57. Define : metabolism.
58. State different types of tissues.
59. Define - Prokaryotic cell.
60. Mention the function of 'Alveoli'.

**6 X 5 = 30****VI Answer all the questions.**

61. Write a short note on different types of clocks. (OR)  
Give the different types of friction and explain each with an example.
62. Explain the working of a periscope. (OR)  
With the help of a neat diagram, explain the working of a calorimeter.
63. Give reason :  
a) Aluminium foils are used to wrap food items. b) Mercury is used in termometers. (OR)  
Explain the environmental effects of chemical reactions?
64. a) What are the effects of acid rain? How can we prevent them? (OR)  
b) Name the compounds produced when the following substances burn in oxygen.  
a) Carbon b) Sulphur c) Phosphorous d) Magnesium e) Iron
65. Write a short note on probiotics. (OR)  
Write the economic importance of gymnosperms.
66. a) Draw the structure of human eye and label its parts. (OR)  
b) Explain the mechanism of breathing.