

Class : 8Register
Number**COMMON HALF YEARLY EXAMINATION - 2023-24**

Time Allowed : 2.30 Hours]

SCIENCE

[Max. Marks :100

PART - I**I. Choose the correct answer.**

15x1= 15

1. Closeness of two or more measured values is called as -----
a) Accuracy b) Precision c) Error d) Approximation
2. Unit of Pressure is -----
a) Pascal b) Nm² c) Poise d) Both a and b
3. If the image and object distance is same, then the object is placed at
a) Infinity b) At F c) Between F and P d) At C
4. Which of the following substances will absorb more heat energy?
a) Solid b) Liquid c) Gas d) All the above
5. The electrification of two different bodies on rubbing is because of the transfer of -----
a) Neutrons b) Protons c) Electrons d) Protons and Neutrons
6. Sound waves travel very fast in -----
a) Air b) Metals c) Vacuum d) Liquids
7. The pictorial symbol for water given by the Alchemists was -----
a) Δ b) ∇ c) ∇ d) Δ
8. Limestone contains ----- mainly.
a) Calcium Chloride b) Calcium Carbonate
c) Calcium Nitrate d) Calcium Sulphate
9. Aerated Water contains -----
a) Air b) Oxygen c) Carbon dioxide d) Nitrogen
10. In Water, Hydrogen and Oxygen are combined in the ratio of ----- by mass.
a) 1 : 8 b) 8 : 1 c) 2 : 3 d) 1 : 3
11. Which of the following is a Water Pollutant?
a) Lead b) Alum c) Oxygen d) Chlorine
12. Base is a substance that gives ----- on dissolving in water.
a) OH⁻ b) H⁺ c) OH d) H
13. ----- shows both Living and Non - living characteristics.
a) Protozoa b) Virus c) Bacteria d) Fungi
14. An example for Colonial form of Algae is -----
a) Oscillatoria b) Nostoc c) Volvox d) Chlorella
15. 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:

5x1=5

16. Hydraulic lift works under the principle of -----
17. ----- is a device that protects building from Lightning Strike.
18. Loading speeds up the process of -----
19. ----- nerve is located at the end of the eyes behind the Retina.
20. The first Menstrual flow begins at Puberty and it is termed as -----

III. Match the following.

5X1=5

- | | | |
|--------------------------------|---|----------------------|
| 21. Barometer | - | reduce Friction |
| 22. Increasing area of Contact | - | Atmospheric Pressure |
| 23. Decreasing area of Contact | - | Cause of Friction |
| 24. Lubricants | - | Increases Friction |
| 25. Irregular Surface | - | Decreases Friction |

IV. State True or False. If false correct the statement.

5x1=5

26. Quartz Clocks are used in GPS Devices.
27. The Charge acquired by an Ebonite rod rubbed with a piece of flannel is Negative.
28. Formation of slaked lime from quicklime is an Endothermic Reaction
29. Citrus Canker is transmitted by Insects.
30. Hinge Joint is slightly movable joint.

V. Draw the neat diagrams and label the parts of the following (any two)

2x5=10

31. (i) Structure of yeast (ii) Human Respiratory System
- (iii) Cell structure of bacteria (iv) Structure of Human Eye

PART - II**VI. Answer any 15 of the following questions:**

15x2=30

32. What is Electric Current?
33. Why are heavy bags provided with Broad Straps?
34. State Snell's law of Refraction.
35. Define Specific Heat Capacity.
36. What is Electroplating?
37. What are the hazards of Noise Pollution?
38. Write the symbols for the following elements.
 - a) Oxygen
 - b) Gold
 - c) Calcium
 - d) Cadmium
39. Define Catalysis.
40. List out the uses of Nitrogen.
41. State the Law of Constant Proportions.
42. What is Neutralization Reaction?
43. Write the names of any three Protozoans.
44. Write any two characters of Dicotyledons.
45. Define - Metabolism.
46. What is Cranium?
47. Explain Menarche.
48. Give any two applications of a Concave and Convex mirror.
49. How does planting trees help in reducing Noise Pollution?
50. What are the methods of removing Hardness of Water?
51. Why microorganisms are essential for Agriculture?

PART - III**VII. Answer any six in detail:**

6x5=30

52. Mention any three ways of minimising Friction.
53. Explain the Working of Thermos Flask.
54. Explain three ways of Charge Transfer.
55. Tabulate the differences between Metals and Non - metals.
56. Explain the different ways of which water gets Polluted.
57. Write a short note on Bacteria and its Structure.
58. Draw the Outline of Bentham and Hooker's System of Classification.
59. Explain the Nutritional needs of Adolescence in brief.