Register Number

COMMON QUARTERLY EXAMINATION - 2023-24

Time Allowed : 2.30 Hours]

SCIENCE

[Max. Marks :100

PART - I

I. Choose the correct answer. 15x1= 15

1. SI unit of Temperature is ---------
   a) Celsius   b) Fahrenheit   c) Kelvin   d) Ampere

2. Which one of the following systems of unit is the British system of unit?
   a) CGS   b) MKS   c) FPS   d) SI

3. Unit of Pressure is
   a) Pascal   b) Nm^2 c) Poise   d) Both a and b

4. The unit of Viscosity is
   a) Nm^2 b) Piose   c) Kgm^{-1} d) No unit

5. Which of the following has curved reflecting surface?
   a) Plane mirror   b) Spherical mirrors
   c) Simple mirrors   d) None of the above

6. The distance from the pole to the focus is called
   a) Pole length   b) Focal length   c) Principal axis   d) None of the above

7. Conduction is the way of heat transfer which takes place in a ---------
   a) Solid   b) Liquid   c) Gas   d) All of them

8. Heat is a form of ----------
   a) Electrical energy   b) Gravitational energy
   c) Thermal energy   d) None of these

9. The Non - metal which conducts Electric current is
   a) Carbon   b) Oxygen   c) Aluminium   d) Sulphur

10. The liquid metal used in Thermometers is
    a) Copper   b) Mercury   c) Silver   d) Gold

11. Burning of Paper is a ---------- change.
    a) Physical Change   b) Chemical
    c) Physical and Chemical   d) Natural

12. Which of the following is known as azote?
    a) Oxygen   b) Nitrogen   c) Sulphur   d) Carbon di oxide

13. ------- is a Prokaryotic microorganisms.
    a) Virus   b) Algae   c) Fungi   d) Bacteria

14. Plant that prevent soil erosion are
    a) algae   b) fungi   c) Bryophytes   d) Pteridophytes

15. ------- is tough and thick white sheath that protects the inner parts of the eye.
    a) Sclera   b) Conjunctiva   c) Cornea   d) Iris

II. Fill in the blanks: 5x1=5

16. --------- is used to measure Electric current.
17. The mirror used by the ophthalmologist to examine the eye is ----------
18. --------- is a chemical substance which alters the speed of a chemical reaction.
19. --------- is prepared from a mould called Pencillium.
20. --------- is the structural and functional unit of living organisms.

III. Match the following. 5X1=5

21. Lubricants   -   Bacteria
22. Copper   -   Solid to gas
23. Snell's law   -   For making wire
24. Sublimation   -   reduce friction
25. Tuberculosis   -   Sin i / sin r = μ

IV. State True or False. If false correct the statement.   5x1=5

26. A moving body comes to rest due to friction alone.
27. CFC is a pollutant.
28. Disease causing micro organisms are called Pathogens.
29. Pinus is a closed seeded plants.
30. Human beings are warm blooded in nature.

V. Draw the neat diagrams and label the parts of the following   4x2½=10

31. (i) Structure of yeast   (ii) Structure of Chlamydomonas
    (iii) Cell structure of bacteria   (iv) Structure of Human eye

PART - II

VI. Answer any 15 of the following questions: 15x2=30

32. Name the three scales of Temperature.
33. What is measurement?
34. Define one atmosphere?
35. A stone weights 500N. Calculate the pressure exerted by it, If it makes contact with a surface of area 25cm².
36. Give any two applications of Concave mirror.
37. The radius of curvature of a spherical mirror is 25cm. Find its Focal length.
38. What are the effects of Heat?
39. Name three types of Heat Transfer.
40. Write the symbols for the following elements
    a) Oxygen   b) Gold   c) Iron   d) Calcium
41. Give two examples for Metaloids.
42. Define a Chemical Reaction.
43. Mention the various conditions required for a Chemical reaction to occur.
44. Write three uses of Nitrogen.
45. What is Global warming?
46. Write the four types of bacteria, based on their shape.
47. Which diseases can be prevented by Vaccination?
48. Write the differences between Algae and Fungi.
49. Write any two characters of Dicotyledons.
50. State different types of Tissues.
51. Define - Prokaryotic cell.

PART - III

VII. Answer any six in detail: 6x5=30

52. List out the base quantities with their units.
53. Explain the working of a Periscope.
54. Tabulate the differences between Metals and Non - metals.
55. Explain how food items are spoiled by Chemical Reactions?
56. What are the effects of acid rain? How can we prevent them?
57. How micro organisms are useful in the field of medicine?
58. Write any Five differences between Monocot and Dicot plants.
59. Draw the structure of Human eye and label its parts.