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Register No. **QUARTERLY EXAMINATION - 2024**

Time : 2.30 Hours

SCIENCE**Marks : 100****PART - A****10x1=10****I. Choose the correct Answer**

1. SI Units of temperature is
a) Celsius b) Fahrenheit c) kelvin d) ampere
2. Pascal's law is used in
a) Hydraulic lift b) brake system c) Pressing heavy bundles d) All the above
3. Which of the following has curved reflecting surface?
a) Plane mirrors b) Spherical mirrors c) Simple mirrors d) None of the above
4. Which of the following substances will absorb more heat energy?
a) Solid b) Liquid c) Gas d) All the above
5. The liquid metal used in thermometers is
a) Copper b) Mercury c) Silver d) Gold
6. Brine is a concentrated solution of
a) Sodium sulphate b) Sodium Chloride c) Calcium Chloride d) Sodium Bromide
7. Aerated water contains
a) Air b) Oxygen c) Carbondioxide d) Nitrogen
8. Microorganisms are measured in.....
a) cm b) mm c) micron d) Meter
9. The first land plants are
a) bryophytes b) Pteridophytes c) gymnosperm d) angiosperm
10. Cells are specialised cells that can be transformed into any kind of cells
a) Nerve b) Stem c) Heart d) Bone

PART - B**10x1=10****II. Fill in the blanks**

11. is used to measure electric current.
12. The property of of a liquid surface enables the water droplets to move upward in plants.
13. The sperical mirror used in a beauty parlour as make-up mirror is
14. The process of converting a substance from gaseous state to solid state is called
15. The symbol of tungeston is
16. is the basic material to manufacture urea.
17. Nitrogen is than sir.
18. are the infectious protein particles
19. Agar Agar is obtained from algae.
20. is the structural and functional unit of living organisms.

PART - C**5x1=5****III. State true or false correct the statement**

21. Liquid pressure decreases with the decrease of depth.
22. A chemical reaction is a temporary reaction.
23. Chicken pox is a communicable disease.
24. Pinus is closed seeded Plant
25. The larynx has fold of tissue which vibrate with the passage of air to produce sound.

PART - D**5x1=5****IV. Match the following**

- | | | |
|----------------|---|---------------|
| 26. Conduction | - | Liquid |
| 27. Convection | - | Gas to liquid |
| 28. Radiation | - | Solid to gas |

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29. Sublimation - Vacuum
30. Condensation - Solid

PART - E**V. Answer any fifteen of the following question****15x2=30**

31. What is measurement?
32. Define - Mole
33. Name two instruments which help to measure the pressure of a fluid.
34. How does surface tension help a plant?
35. State the laws of reflection
36. What are the applications of conduction in our daily life?
37. What is conduction?
38. Write the constituent elements and their symbols for the following compounds.
a) Carbon monoxide b) Washing soda
39. Can you store pickle in an aluminium utensil? Give reason
40. Define a chemical reaction
41. Mention the various conditions required for a chemical reaction to occur.
42. What is dry ice? what are its uses?
43. Why does the fish die when it is taken out of water?
44. What are Pathogens?
45. What is meant by binomial nomenclature? Give Examples
46. What is cell differentiation?
47. Match
Carbonhydrates - Enzymes, Hormone, Protein
Glucose - Glucose
Protein - CO_2 , Water and Meat
Amino Acids - Amino acid
48. Write any two economic importance of algae.

PART - F**VI. Answer in details****8x4=40**

49. 1. Friction is necessary evil - Explain (OR)
2. List out the base quantities with their units.
50. 1. What is reflection? Write a short note on regular and irregular reflection. (OR)
2. What is dispersion? Explain in detail.
51. 1. Write a note on thermostat (OR)
2. Write the help of neat diagram, explain the working of a calorimeter.
52. 1. Name six common non-metals and write their symbols (OR)
2. Explain the environmental effects of chemical reactions?
53. 1. What happens when carbon dioxide is passed through lime water? Write the equation for this reaction. (OR)
2. What are the effects of acid rain? How can we prevent them?
54. 1. Write a short note on bacteria and its structure (OR)
2. Write a short note on probiotics.
55. 1. Write the economic importance of gymnosperms (OR)
2. Write any five differences between monocot and dicot Plants.
56. 1. Explain osmosis with an example (OR)
2. Draw the structure of human eye and label its Parts.