Class : X

Sub : PHY. SCIENCE

MODEL PAPER

PART - A

SECTION - I

Answer any FIVE of the following choosing atleast two from each group : $5 \ge 2 = 10$ GROUP - A

1. Write the factors that influence value of 'g'.

- 2. Draw symbols of p-n-p and n-p-n transistor.
- 3. State the laws of resistance ?
- 4. What is moderator ? Give an example.

GROUP - B

- 5. Define atomic radius and Jonisation energy.
- 6. Draw the bond formation of HCl molecule.
- 7. What are Amino acids give two examples.

8. What are the quatities of a face powder ?

SECTION - II

Answer any FOUR of the following : $4 \ge 1 = 4$

9. Define time of flight.

- 10. State law of radioactive disintegration?
- 11. What is doping?
- 12. What is soaponification of oils ?

13. What is annealing ?

14. What is ionic product of water ?

SECTION - III

Answer any FOUR of the following choosing atleast two from each group : $4 \ge 4 = 16$ GROUP - A

15. Compare the properties of \langle , \mathbb{B} and \mathbb{O} radiations.

16. What are the uses of radio isotopes.

17. Derive

123

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= + +

18. Write about the formation of p-type and n-type semiconductors ?

GROUP - B

19. Write about Rutherford atom model with defects ?

20. What is modern periodic law ? Explain its main features ?

21. How do you test the quantity of a soap?

22. What is a drug ? What are its qualities ? How they are classified based on therapautic action?

SECTION - IV

Draw any one of the diagram : $1 \ge 5$

23. Draw nuclear reactor and label its parts?

24. Draw the diagram showing alcohol manifacture and label the parts ? **-000-**

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PART - A Marks : 35 Class : X

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Max. Marks : 15

PART - B

I. Choose the correct answer :- $10X^{1/2}=5$

1. The device used to separate particles from higher mass from those of lower mass in a given mixture

()

- a) Centrifuge b) Photometer c) Gravitymeter d) None
- 2. The electromagnetic waves are ()
- a) Stationary waves b) Transverse wave c) Longitudinal wavs d) Both c & b
- 3. The distance between successive node and antinode ()
- a) (2 b) (8 c) (4 d)
- 4. Solid angle is measured in ()
- a) Lumen b) Candela c) Phot d) Steradians
- 5. Which one of the following is not a diamagnetic substance ()
- a) Air b) H₂O c) Iron d) Bismuth
- 6. Magnesium are is ()
- a) Beryl b) Baryte c) Carnalite d) Hematite
- 7. In tollen test glucose reduces ()
- a) Ag metal to Ag+ ion b) Ag+ ion to Ag metal
- c) Cu₂₊ to Cu- ion d) Cu+ ion to Cu₂O
- 8. Glass blowing is possible with ()
- a) Flint glass b) Pyrex glass c) Soda glass d) Hard glass
- 9. Colour of Phenaphathalein indicator in acidic medium ()
- a) Colourless b) Green c) Orange d) Red
- 10. Shaving soap contain excess of ()
- a) Lauric acid b) Glycerol c) Stearic acid d) Olic acid

II. Fill in the blanks : $10X\frac{1}{2}=5$

- 11. Screw gauge works on the principle of
- 12. In S.H.M. acceleration of the particles is directly proportional to
- 13.
- _____ protect us from ultravoilet radiations from the sun.
- 14. The unit of Magnetic pole strength in M.K.S system ______.
- 15. Frequency used in Radio communication ______.
- 16. The reagent used to prepare BeH_2 from $BeCl_2$ is
- 17. Solid Co₂ is called
- 18. The Co-NH bond is called ______.
- 19. Deodarant soap contains ______.
- 20. Formala for acetic acid is

III. Match the following : $10X^{1/2}=5$

- 21. [®] -rays () a) High ionisation
- 22. © rays () b) Same mass number but different atomic numbers
- 23. Isotopes () c) Electromagnetic radiations
- 24. \langle rays () d) Electrons originating in the nucleus
- 25. Isobars () e) Same atomic number but different mass number

26. Alkane () a) C₂H₄ 27. Alkene () b) C₂H₅OH 28. Alkyne () c) C₆H₆ 29. Acid () d) C₄H₁₀ 30. Benzene () e) C₂H₂ f) CH₃COOCH₃ g) CH₃COOH **-000**

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