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BOARD OF INTERMEDIATE EDUCATION (AP)

HALF YEARLY EXAMINATIONS - 2021

JUNIOR INTER CHEMISTRY

MODEL PAPER - 2 (English Version)

Time: 3 Hours Max.Marks: 60

SECTION - A

Note: i) Very short answer type questions.

 $10 \times 2 = 20$

- ii) Answer All questions.
- iii) Each questions carries 2 marks.
- 1. How many no.of moles of glucose present in 540 g of glucose?
- 2. Calculate the mass percent of the different elements present in sodium sulphate (Na_2SO_4) .
- How many significant figures are present in the following?
 a) 0.0025 b) 126.000 c) 208 d) 2.0034
- 4. State Boyle's Law.
- 5. Why the gas constant (R) is called universal gas constant?
- **6.** What is Octet rule?
- Define dipole moment.
- 8. IE of Oxygen is less than Nitrogen Explain.
- 9. Write the outer shell electronic configuration of inner transition elements.
- 10. Write the difference between orbit and orbital.

SECTION - B

Note: i) Short answer type questions.

 $6 \times 4 = 24$

- ii) Answer any Six questions.
- iii) Each questions carries 4 marks.11. Write the postulates of kinetic theory of gases.
- 12. State Graham's law and Dalton's law of partial pressures.
- 13. Explain photo electric effect.
- 14. Write the characteristic properties of transition elements.
- 15. Define molarity. Calculate the moles of NaOH in the solution prepared by dissolving 4g of NaOH in 250 mL of water.
- 16. Balance the following redox reaction by ion electron method in basic medium.

 ${\rm MnO}_4^- + {\rm I}^- \longrightarrow {\rm MnO}_2 + {\rm I}_2$

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17. What is a hydrogen bond? Write about different types of hydrogen bonds. 18. Explain the hybridisation involves in SF₆ molecule. SECTION - C Note: i) Long answer type questions. ii) Answer any Two questions. iii) Each questions carries 8 marks. 19. Write an essay on s, p, d and f blocks. 20. Give an account of VSEPR theory and its applications. 21. a) What are the postulates of Bhor's model of H - atom? b) Write the differences between emission and absorption spectrum. Writer: P. Trinadha Raja

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