HALF YEARLY EXAMINATION — 2014-15 CHEMISTRY

Time Allowed: 3 Hrs.

Class - XI

Maximum Marks: 70

General Instructions:

- (i) Attempt all questions.
- (it) Q 1-5 are very short answer type questions carrying I mark each.
- (iii) Q 6-10 are short answer type questions carrying 2 marks each.
- (iv) Q 11-22 are also short answer type questions carrying 3 marks each.
- (v) Q 23 is a value based question carrying 4 marks.
- (vi) Q 24-26 are long answer type questions carrying 5 marks each.
- (vii) There is no overall choice in the paper. However, there is an internal choice in some questions.
- (viii) Use of calculator is prohibited. Log tables can be used if necessary.
- Give an example of a molecule which has intramolecular hydrogen bonding.
- Write the electronic configuration of La (z = 57).
- 3. Which of the following species has the largest and smallest size? Mg, Mg²⁺, Al, Al³⁺
- 4. What is the significance of van der Waals parameters 'a' and 'b'?
- 5. What will happen to the wavelength associated with the moving particle if its velocity is doubled?
- 6. Two bulbs B₁ and B₂ of equal capacity contains 10g oxygen (O₂) and ozone (O₃) respectively. Which bulb will have greater number of oxygen atoms?

(Atomic mass of oxygen = 16 u and Avogadro's number = 6.022×10^{23})

- 7. Using ideal gas equation, show that at a given temperature, density of a gas is directly proportional to the pressure of the gas.
- 8. Derive a relation between Cp and Cv for one mole of an ideal gas.
- Explain dispersion forces with the help of a suitable example.

OR.

The Maxwell-Boltzmann distribution curve for a gas at three different temperatures is shown below. Answer the questions based on it.

(a) The value of the most probable speed (c*) obtained at temperature T₃ is greater than that obtained at temperature T₁ and T₂. Justify.

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M Mark

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