

BOARD OF INTERMEDIATE EDUCATION, KARACHI

INTERMEDIATE EXAMINATION, 2016 (ANNUAL)

Date: 12-05-2016
9:30 a.m. to 9:50 a.m.

CHEMISTRY PAPER – I (Science Pre-Engineering & Pre-Medical Groups)

Max. Marks: 17
Time: 20 minutes

The correct answers are highlighted in red colour.

SECTION 'A' (MULTIPLE CHOICE QUESTIONS) – (M.C.Qs.)

Code No: CH-09

Write this Code No. in the Answerscript.

NOTE:

- This section consists of 17 part questions and all are to be answered. Each question carries one mark.
- Do not copy the part questions in your answerscript. Write only the answer in full against the proper number of the question and its part.
- The code of your question paper is to be written in bold letters in the beginning of the answerscript.

1. Choose the correct answer for each from the given options:

- The Octet rule is not valid for this molecule:
* N_2 * CO_2 * O_2 * **H_2**
- The yield of Ammonia in Haber's process is favoured by:
* High pressure and high temperature * **High pressure and low temperature**
* Low pressure and low temperature * Low pressure and high temperature
- This ion has greatest degree of hydration:
* Na^+ * Mg^{+2} * **Al^{+3}** * K^+
- The volume of 3.01×10^{23} molecules of N_2 gas at S.T.P. will be:
* $3dm^3$ * **$11.2dm^3$** * $22.4dm^3$ * $28dm^3$
- $Rate = K NH_3^2$. Keeping the other conditions same, if the concentration of NH_3 is increased by four times, then the initial rate of reaction X will be:
* 2X * 4X * 8X * **16X**
- This is not extensive property:
* Entropy * **Viscosity** * Enthalpy * Internal Energy
- The extent of reaction will be maximum for this K_c value:
* 10^{-13} * 0.1 * 10 * **10^3**
- This Hydrogen halide has the highest percentage of ionic character:
* **HF** * HCl * HBr * HI
- These have low values of activation energy:
* Slow reactions * **Fast reactions**
* Moderate reactions * Ionic reactions
- The bond angle is maximum in this molecule:
* CH_4 * **CO_2** * H_2O * NH_3
- Gases behave ideally at these conditions:
* High pressures and high temperatures * High pressures and low temperatures
* **Low pressures and high temperatures** * Low pressures and low temperatures
- Glass is a/an:
* Crystalline solid * **Amorphous solid** * Covalent solid * Ionic solid
- Bond Energy is the greatest for:
* CH_4 * O_2 * **N_2** * Cl_2
- The bulk properties of a system, which are easily measurable, are known as:
* Microscopic properties * Chemical properties
* **Macroscopic properties** * Physical properties
- The characteristic of 10^3 is:
* 2 * **3** * 4 * 5
- This molecule has zero dipole moment:
* NH_3 * **CO_2** * H_2O * HCl
- The molarity of a solution containing 20g $NaOH$ dissolved into $1dm^3$ solution will be:
* 0.1 * **0.5** * 1 * 2

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