**[Model Paper](http://www.result.pk)**

**[Chemistry](http://www.result.pk)** [-](http://www.result.pk) **[I](http://www.result.pk)**

**[Total Time: 3 Hours Max: Marks: 85](http://www.result.pk)**

**[Note:](http://www.result.pk)** **[There are THREE Sections of this Paper i.e. A.B and C, attempt each according to the given instructions.](http://www.result.pk)**

**[Time: 20 Minutes](http://www.result.pk)****[SECTION-A](http://www.result.pk)** **[Marks: 15](http://www.result.pk)**

**[Note:](http://www.result.pk)** [Attempt all parts of Section – A. Section –A must be return to the superintendent after 20](http://www.result.pk)

 [minutes even if you have not attempted any question. Overwriting/ defacing/Cutting etc is](http://www.result.pk)

[prohibited in Section-A and no credit will be given to such answer.](http://www.result.pk)

**[I.                   Write the correct option i.e. A/B/C/D in the empty boxes.](http://www.result.pk)**

[i.           Which electrolyte is used in the salt bridge?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

[(A) Kcl (B) KBr (C) NaCl (D) ](http://www.result.pk)

[ii.         In which of the following compounds does hydrogen bonding occur \_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

[(A)  (B) He (C)LiH (D) ](http://www.result.pk)

[iii.       A reactant which controls the amount of the product is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Excess reactant (B) Limiting reactant (C) Equal reactant (D) None of these](http://www.result.pk)

[iv. The value of R in SI unit is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .](http://www.result.pk)

 [(A) 1.987 (B) 62.4 (C) 0.821 (D) 8.3143](http://www.result.pk)

[v.         Which one of the following is not a state function \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Enthalpy (B) Heat (C) Temperature (D) Pressure](http://www.result.pk)

[vi.       The change in concentration of reactant per unit time is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Rate equation (B) Rate constant (C) Rate of reaction(D) None of these](http://www.result.pk)

[vii.     Very large Ka value means that the solution is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Strong acid (B) Weak acid (C) Strong base (D) Neutral](http://www.result.pk)

[viii.   Which of the following have lowest polarisibility \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A)  (B)  (C)  (D) ](http://www.result.pk)

[ix.       At the same temperature & pressure, which of the following gas have the greatest](http://www.result.pk)

[density \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A)  (B)  (C)  (D) ](http://www.result.pk)

[x.         The shape of molecule is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Linear (B) Trigonal (C) Pyramidal (D) Tetrahedral](http://www.result.pk)

[xi.       To which series of spectral lines of photon belongs, when electron jump from](http://www.result.pk)

[\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Balmer (B) Lyman (C) Paschen (D) Bracket](http://www.result.pk)

[xii.     Structure of diamond is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Hexagonal (B) Cubic (C) Rhombic (D) Trigonal](http://www.result.pk)

[xiii. In which of the following values of Kc, the reaction goes to completion in forward](http://www.result.pk)

 [direction \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A)  (B)  (C) 1 (D) ](http://www.result.pk)

[xiv. The total pressure of mixture of different gases is the result of the total \_\_\_\_\_\_\_\_\_\_](http://www.result.pk)

 [per unit area.](http://www.result.pk)

 [(A) Temperature (B) Volume (C) No. of moles (D) No. of collision](http://www.result.pk)

[xv. The efficiency of a reaction is expressed by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ yield.](http://www.result.pk)

 [(A) Actual (B) Experimental (C) Theoritical (D) Percent](http://www.result.pk)

[xvi. Fog is the example of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Solution (B) Collides (C) Suspension (D) None of these](http://www.result.pk)

[xvii. In Down’s process of electrolysis of molten NaCl the substance produced at anode](http://www.result.pk)

 [is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.](http://www.result.pk)

 [(A) Sodium (B) Oxygen (C) Chlorine (D) Hydrogen](http://www.result.pk)

[xviii. One molar solution of is mixed with IM solution of HCl, the solution formed is \_\_\_.](http://www.result.pk)

 [(A) Acidic (B) Basic (C) Neutral (D) Amphoteric](http://www.result.pk)

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 **[Note:](http://www.result.pk)****[Time allowed for section B and C is 2 hours and 40 minutes.](http://www.result.pk)**

**[SECTION “B” Marks: 40](http://www.result.pk)**

[II.                Attempt any TEN Parts out of the following. Each Part carries equal marks.](http://www.result.pk)

[i. Write the properties of Canal Rays.](http://www.result.pk)

[ii. Calculate the no. of oxygen atoms in 22g of ](http://www.result.pk)

[iii. Explain Avogadro’s law.](http://www.result.pk)

[iv. How gases deviate from ideal behaviour?](http://www.result.pk)

[v. Explain why water droplet is spherical?](http://www.result.pk)

[vi. Differentiate between plane of symmetry & axis of symmetry.](http://www.result.pk)

[vii. What is common ion effect?](http://www.result.pk)

[viii. Determine the PH of 0.15M NaOH solution.](http://www.result.pk)

[ix. What is the effect of temperature on rate of reaction?](http://www.result.pk)

[x. Write note on Fuel cell.](http://www.result.pk)

[xi. Explain electrochemical series.](http://www.result.pk)

[xii. Differentiate between Anode & Cathod?](http://www.result.pk)

 [xiii. Define Enthalpy & Standard Enthalpy.](http://www.result.pk)

 **[SECTION “C” Marks: 27](http://www.result.pk)**

**[Note: Attempt any THREE questions of the following. Each question carries equal Marks.](http://www.result.pk)**

**[III.](http://www.result.pk)** [(a) Explain limiting & excess reactant.](http://www.result.pk)

 [(b) Balance the following equation by half reaction method.](http://www.result.pk)

 [(i)  (ii) ](http://www.result.pk)

**[IV.](http://www.result.pk)** [(a) Define dipolmoment. How does it help to find out the geometry of molecule?](http://www.result.pk)

 [(b) Explain bonding in with the help of MOT.](http://www.result.pk)

**[V.](http://www.result.pk)** [(a) State & explain law of Mass action.](http://www.result.pk)

 [(b) A mixture of 1 Mole acetic acid & 3 Moles of ethyl alcohol is heated at . Calculate](http://www.result.pk)

 [the moles of ethyl acetate at equilibrium. Kc = 4.](http://www.result.pk)

**[VI.](http://www.result.pk)** [Write short note on any three of the following:](http://www.result.pk)

 [(a) Hybridization (b) Voltaic cell](http://www.result.pk)

 [(c) Valence bond theory (d) Hydrogen bonding](http://www.result.pk)