

ISC Class 12 Chemistry Question Paper Solution 2017

CHEMISTRY THEORY (PAPER-1)

Part I (20 marks)

Answer all questions

Question 1

- (a) Fill in the blanks by choosing the appropriate word/words from those given in the brackets: [5]
(iodoform, acetaldehyde, positive, greater, acidic, acetone, disaccharide, negative, increases, glucose, decreases, chloroform, polysaccharide, lactose, lesser, basic, cationic hydrolysis, anionic hydrolysis)
- (i) Calcium acetate on heating gives _____ which gives _____ on heating with iodine and sodium hydroxide solution.
- (ii) On dilution of a solution, its specific conductance _____ while its equivalent conductance _____.
- (iii) Sucrose is a _____ and yields upon hydrolysis, a mixture of _____ and fructose.
- (iv) More _____ is the standard reduction potential of a substance, the _____ is its ability to displace hydrogen from acids.
- (v) An aqueous solution of CH_3COONa is _____ due to _____.
- (b) Complete the following statements by selecting the correct alternative from the choices given: [5]
- (i) In a face centered cubic lattice, atom (A) occupies the corner positions and atom (B) occupies the face centre positions. If one atom of (B) is missing from one of the face centered points, the formula of the compound is:
- (1) A_2B_5
(2) A_2B_3
(3) AB_2
(4) A_2B
- (ii) The half-life period of a first order reaction is 20 minutes. The time required for the concentration of the reactant to change from 0.16 M to 0.02M is:
- (1) 80 minutes
(2) 60 minutes
(3) 40 minutes
(4) 20 minutes
- (iii) For a spontaneous reaction ΔG° and E° cell will be respectively:

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