



SMART TEST SERIES

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Name:		Subject:	Chemistry-11
Roll # :		Unit(s):	2,
Class:	Inter Part-I	Test:	Type 3 - MCQs + SQs Test - Marks=30
Date:		Time:	

Q.1 Four possible answers A, B, C & D to each question are given. Circle the correct one. (10x1=10)

- 1 Gooch crucible is made of:
(A) Glass (B) Paper (C) Teflon (D) Procelain
- 2 The drying agent used in a desiccator:
(A) AgCl (B) NH₄Cl (C) P₂O₅ (D) AlCl₃
- 3 Which substance is not a dehydrating agent?
(A) CdCl₂ (B) CaCl₂ (C) Silica gel (D) P₂O₅
- 4 Drying agent used in crystallization is:
(A) P₂O₅ (B) Animal charcoal (C) KMnO₄ (D) Water
- 5 Which one is not example of a sublimate?
(A) Ammonium chloride (B) Iodine (C) NaCl (D) Benzoic acid
- 6 Solvent extraction is an equilibrium process and is Controlled by:
(A) Law of mass action (B) The amount of solvent used (C) Distribution law
(D) The amount of Solute
- 7 Solvent extraction method is particularly useful technique for separation when the product to be separated is:
(A) Non-volatile or thermally unstable (B) Volatile or thermally stable
(C) Non-volatile or thermally stable (D) Volatile or thermally unstable
- 8 A component having small value of K (distribution coefficient) mostly remains in the:
(A) Stationary phase (B) Mobile phase (C) Chromatographic tank (D) Solvent
- 9 During chromatography strip should be dipped into solvent mixture to a depth of:
(A) 3-4 mm (B) 4-5 mm (C) 5-6 mm (D) 6-7 mm
- 10 A filtration process could be very time consuming if it were not aided by a gentle suction, which is developed:
(A) If the paper covers the funnel up to its circumference
(B) If the paper has got small sized pores in it
(C) If the stem of the funnel is large so that it dips into the filtrate (D) If the paper fits tightly

Q.2 Write short answers of the following questions.

(10x2=20)

- (i) What is difference between qualitative analysis and quantitative analysis?
- (ii) Concentrated HCl and KMnO₄ solutions can be filtered by Gooch crucible. Give reason.
- (iii) How does rate of filtration increased by fluted filter paper?
- (iv) Write four Properties of metallic crystal?
- (v) Write down the name of eight solvents used in crystallization.
- (vi) How saturated solution for crystallization can be prepared?
- (vii) The desiccator is a safe and reliable method for drying the crystals. Explain.
- (viii) Define sublimation what type of a substance can be purified by this technique.
- (ix) Define chromatography. Give its two uses.
- (x) What is partition chromatography.