

Course Code: 4BSC3
Course: Physical & Organic Chemistry (Chemistry-VI)
Credit: 4
Last Submission Date: October 31, (for January session)
April 30 (for July Session)

Max. Marks:-30

Min. Marks:-10

Note:-attempt all questions.

Que.1 Explain the following

- (1) Bi-cd system
- (2) Pd- Ag system

Que.2 Briefly discuss the Debye-Hückel-Onsager's equation for strong electrolytes.

Que.3 Explain the separation of Np, Pu, and Am from U.

Que.4 Explain the oxidation state and ionic radii of lanthanide elements.

Que.5 Write short notes on- :

- (1) Mannich Reaction
- (2) Hell-Volhard-Zelinsky reaction

Que.6 Briefly explain Wittig reaction.

Que.7 Write short notes on :-

- (1) Mannich Reaction
- (2) Hell-Volhard-Zelinsky reaction

Que.8 Briefly explain Aldol reaction.

Que.9 Write short notes on:- picric Acid

Que.10 Briefly define the reaction-

- (1) Gabriel- phthalimide reaction
- (2) Hoffmann bromide Reaction

