

BPHARM**THEORY EXAMINATION (SEM-II) 2016-17****PHARMACEUTICAL CHEMISTRY-II (ORGANIC CHEMISTRY-I)****Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.****SECTION-A****1. Attempt all of the following:****(10×2=20)**

- a) Write the Definition of hybridization.
- b) What do you understand by inductive effect?
- c) Define optical activity.
- d) Write short note on conformational analysis.
- e) Write a short note on naphthalene.
- f) What is the Grignard Reagents?
- g) What do you mean by electrovalent bond?
- h) What is the mechanism of addition to carbon- carbon double bond
- i) Write note on aldehydes.
- j) Write the physical properties of acid anhydrides?

SECTION-B**2. Attempt any five of the following:****(10×5=50)**

- a) Discuss the atomic orbital theory.
- b) Discuss the classification and nomenclature of organic compound?
- c) Write the note on Geometrical isomerism.
- d) Write the note on polynuclear hydrocarbon.
- e) Write the different method of preparation of aniline.
- f) Write the method of esterification with its mechanism.
- g) Explain in Resonance in benzene in details.
- h) Differentiate between conformations and configurational analysis in detail.

SECTION-C**Attempt any two of the following:****(15×2=30)**

3. What do you understand by molecular orbital theory?
4. Discuss the mechanism of preparation and reactions of Dienes.
5. Write the mechanism of resonance and orientation of aromatic substitution reactions.