## www.FirstRanker.com www.FirstRanker.com First Semester M. Pharm Degree Examination - JAN-2019

[Time: 3 Hours] [Max. Marks: 75]

## **Advanced Organic Chemistry -I** Q.P. CODE: 5118

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

## **LONG ESSAY (Answer any Three)**

 $3 \times 10 = 30 \text{ Marks}$ 

- 1. Discuss different methods applied for protecting and deprotecting (i) carbonyl (ii) carboxyl containing compound.
- 2. Write the different strategies for synthesizing five and six heterocyclic via retrosynthesis.
- 3. Write the synthetic application of Ullmann coupling and Michael addition reaction.
- 4. Explain SN1 and SN2 mechanism with suitable examples.

## **SHORT ESSAY (Answer any Nine)**

9 X 5 = 45 Marks

- 5. Explain rearrangement reaction of carbocations with suitable example.
- 6. Explain the role of triphenylphosphine in Witting reaction.
- 7. Write structure and uses of five medicinal compounds containing purine moiety.
- 8. Write the guidelines for dissection of molecules.
- 9. Give the synthetic applications of Imidazole and Quinoline moieties.
- 10. Write the synthetic applications of Aluminium isopropoxide and N-bromosuccinamide.
- 11. Explain the methods followed for C-C disconnection.
- 12. Discuss in detail Mannich reaction.
- 13. Write Sandmeyers reaction and Ugi reaction.
- .uition Write the synthetic application of Michael addition reaction. 14.