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Total No. of Questions : 8] *[Total No. of Printed Pages : 1*

Roll No .....

PY-203 (GS)

B.Pharmacy II Semester Examination, June 2020

Grading System (GS)

Pharmaceutical Chemistry-III

(Organic-I)

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.
ii) All questions carry equal marks.

1. What is optical activity? Describe R and S configuration with its sequence rules.

2. What is Racemic Mixture? Give methods of resolve racemic mixture.

3. How will you prepare alkanes via Grignard reagent and coupling of alkyl halides with organometallic compounds? Give reaction equations.

4. Describe the free radical substitution reaction of Alkane. Explain its orientation and reactivity.

5. Compare the boiling point and water solubility of ortho-nitro phenol, meta-nitro phenol and para-nitro phenol. How can these differences be accounted for?

6. Explain the reaction
   a) Aldol condensation
   b) Williamson's synthesis

   OR

   Give methods of preparation of Esters and Amides.

7. Describe the structure of Carbonyl group. Describe the nucleophilic addition reaction to > C = 0 group.

   OR

   Compare and contrast E_1 and E_2 mechanism in detail.

8. Write short notes on:
   a) Acidities of phenol, alcohols and carboxylic acid
   b) Preparation and chemical reaction of Diazonium Salts

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