

PARUL UNIVERSITY
PARUL INSTITUTE OF PHARMACY
B.PHARM FOURTH SEMESTER

SECOND INTERNAL THEORY EXAMINATION: 2018-19

Subject Name: Pharmaceutical Organic Chemistry-III

Subject Code: BP401T

Time: 10:00 am–11:15 am

Date: 14/03/2019

Total Marks: 30

- Q.1 Multiple Choice Questions:** **[10]**
- (1) Electrophilic substitution reaction in Pyrazole taken place at Which position? **01**
(a) 2 (b) 3 (c) 4 (d) 5
- (2) Ketoconazole consist which ring? **01**
(a) Pyrazole (b) Imidazole (c) Thiazole (d) Oxazole
- (3) Which of the following reagent is used in oppenauer oxidation. **01**
(a) Lithium aluminium hydroxide
(b) Sodium borohydride
(c) Aluminium isopropoxide
(d) Sodium hydroxide
- (4) Sulfonation of Thiazole taken Place at Which position? **01**
(a) 2 (b) 3 (c) 4 (d) 5
- (5) Pyridine is _____ Basic then Aliphatic amine **01**
(a) Less (b) More (c) Equally (d) Doubly
- (6) Conversion of salicyaldehyde to catechol occurs in presence of out **01**
(a) Hydrogen peroxide and acid
(b) Hydrogen peroxide and base
(c) Sodium borohydride and acid
(d) Sodium borohydride and base
- (7) Reaction of Quinoline with NaNH_2 at High Temperature Gives? **01**
(a) 2-Amino Quinoline (b) 3-Amino Quinoline
(c) 4-Amino Quinoline (d) 5-Amino quinoline

- (8) Nitration of Indole taken place at which position 01
(a) 1 (b) 2 (c) 3 (d) 4
- (9) Pindolol Consist which ring? 01
(a) Indole (b) Imidazole (c) Pyridine (d) Piperidine
- (10) Schmidt Reaction involves conversion of 01
(a) Carboxylic acid to amines
(b) Aldehydes or ketones to amide
(c) Alcohol or olefins to imines
(d) All of the above

Roll No.: _____

Enrolment No. _____

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Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

- Q.2** Long Answers:(Any One)
- (1) Write all the reactions of Quinoline. 10
- (2) A. Write a note on Aromaticity and basicity of Pyridine.
B. Write the Hantzsch Pyridine synthesis with mechanism. 10
- Q.3** Short Answers:(Any Two)
- (1) Write reaction with mechanism: 05
- A. Skraup's Synthesis
- B. Chichibabin reaction
- (2) Write a note on asymmetric synthesis. 05
- (3) Write reaction with mechanism: 05
- (a) Beckmann rearrangement
- (b) Claisen Schmidt Condensation
