

**PARUL UNIVERSITY**  
**FACULTY OF PHARMACY**  
**B. Pharm. Summer 2018 - 19 Examination**

**Semester: 4**  
**Subject Code: BP401T**  
**Subject Name: Pharmaceutical Organic Chemistry-III**

**Date: 01/04/2019**  
**Time: 2:00 pm to 5:00 pm**  
**Total Marks: 75**

**Instructions:**

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

**Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)****(20)**

1. Cahn, Ingold and Prelog rule is used to \_\_\_\_\_.  
 a) Determine the R and S configuration      b) Determine the D and L configuration  
 c) Determine the Cis and Trans configuration      d) Determine the E and Z configuration
2. Sulfonation of Thiazole taken Place at Which position of ring?  
 a) Second      b) Third  
 c) Fourth      d) Fifth
3. Give the IUPAC name of Ethylene Oxide .  
 a) Oxirane      b) Oxole  
 c) Oxitane      d) Oxolane
4. Pyridine is \_\_\_\_\_ Basic then aliphatic amines.  
 a) More      b) Equally  
 c) Less      d) Doubly
5. 1,2-position with six-member heterocyclic ring containing two nitrogen atom is called \_\_\_\_\_.  
 a) Pyrimidine      b) Pyridine  
 c) Pyrazine      d) Pyridazine
6. The acid-catalysed conversion of oxime to N-substituted amides is known as \_\_\_\_\_.  
 a) Baeyer-Villiger rearrangement      b) Dakin reaction  
 c) Beckmann rearrangement      d) Claisen-Schmidt condensation
7. Different arrangements of atoms that can be converted into one another by rotation about single bonds are?  
 a) Enantiomer      b) Diastereomer  
 c) Conformational isomer      d) Configurational isomer
8. Diels-Alder reaction can be carried out in which of the following heterocyclic compounds more readily?  
 a) Pyrrole      b) Furan  
 c) Thiophene      d) Pyridine
9. Conversion of salicylaldehyde to catechol occurs in presence of \_\_\_\_\_.  
 a) Hydrogen peroxide and acid      b) Hydrogen peroxide and base  
 c) Sodium borohydride and base      d) Sodium borohydride and acid
10. Which of the following reagent is used in Oppenauer oxidation?  
 a) Lithium aluminium hydroxide      b) Sodium hydroxide  
 c) Sodium borohydride      d) Aluminium isopropoxide
11. Which geometric isomer will not form its corresponding anhydride on heating at 150 °C?  
 a) Acetic acid      b) Fumaric acid  
 c) Maleic acid      d) Malonic acid
12. The number of optically active isomer of tartaric acid is \_\_\_\_\_.  
 a) 2      b) 3  
 c) 4      d) 5
13. Skraup Synthesis can be used for which of the following heterocyclic synthesis?  
 a) Pyrazole      b) Pyrimidine  
 c) Quinoline      d) Furan

