Seat No:

Enrollment No:

Total Marks: 75

PARUL UNIVERSITY FACULTY OF PHARMACY

B. Pharm. Summer 2017 - 18 Examination

Semester: 2 Date: 26/05/2018

Subject Code: BP202T Time: 10:00AM TO 01:00PM

Subject Name: Pharmaceutical Organic Chemistry I - Theory

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- 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. Amines which are bonded with alkyl group are
 - a) Primary amines

b) Tertiary amines

c) Secondary amines

- d) Quaternary amines
- 2. Which of the following statements about glycerol is incorrect?
 - a) It can depress the freezing point of water
- b) It is a good solvent for polar covalent
- molecules
- c) It is metabolized to oxalic acid.
- d) It is hygroscopic.
- 3. The general molecular formula of aldehydes and ketones is
 - a) $C_nH_{2n-1}O$

b) $C_nH_{2n}O$

c) $C_nH2_{n+2}O$

- d) $C_n H_{2n+4} O$
- 4. Conversion of an aldehyde to an alcohol is generally known as...
 - a) Oxidation

b) Nitration

c) Reduction

d) Esterification

- 5. Which of the following is correct.
 - a) Aldehydes undergo the Cannizzaro's reaction
- b) Aldehydes are less susceptible to oxidation
- than ketones
- c) Aldehydes are more susceptible to oxidation
- than ketones

- d) Formaldehyde forms CuO with Fehling's
- solution
- 6. Which molecule is an example of a ketone?
 - a) Ethanal (Acetaldehyde)

b) Propanamide

c) Propan-2-one (acetone)

- d) Ethanoic anhydride (Acetic anhydride)
- 7. Conversion of a carboxylic acid to an ester is known as...
 - a) Oxidation

b) Esterification

c) Reduction

- d) Nitration
- 8. Which of the following statements regarding the E1 mechanism is wrong?
 - a) Reactions by the E1 mechanism are
 - unimolecular in the rate-determining step
- b) Reactions by the E1 mechanism are
- generally first order.
- c) Reactions by the E1 mechanism usually occur
- in one step.

- d) Reactions by the E1 mechanism are multi-
- step reactions.
- 9. SN2 reactions involving chiral electrophiles usually proceed with:
 - a) Retention of configuration

- b) Inversion of configuration
- c) Equal amounts of inversion and retention of
- configuration

- d) None of above
- 10. Perkin reaction is a reaction of an α , β -unsaturated aromatic acid by the aldol condensation of an aromatic aldehyde and ______.
 - a) Aromatic amine

b) Nitroso amine

c) Aliphatic amines

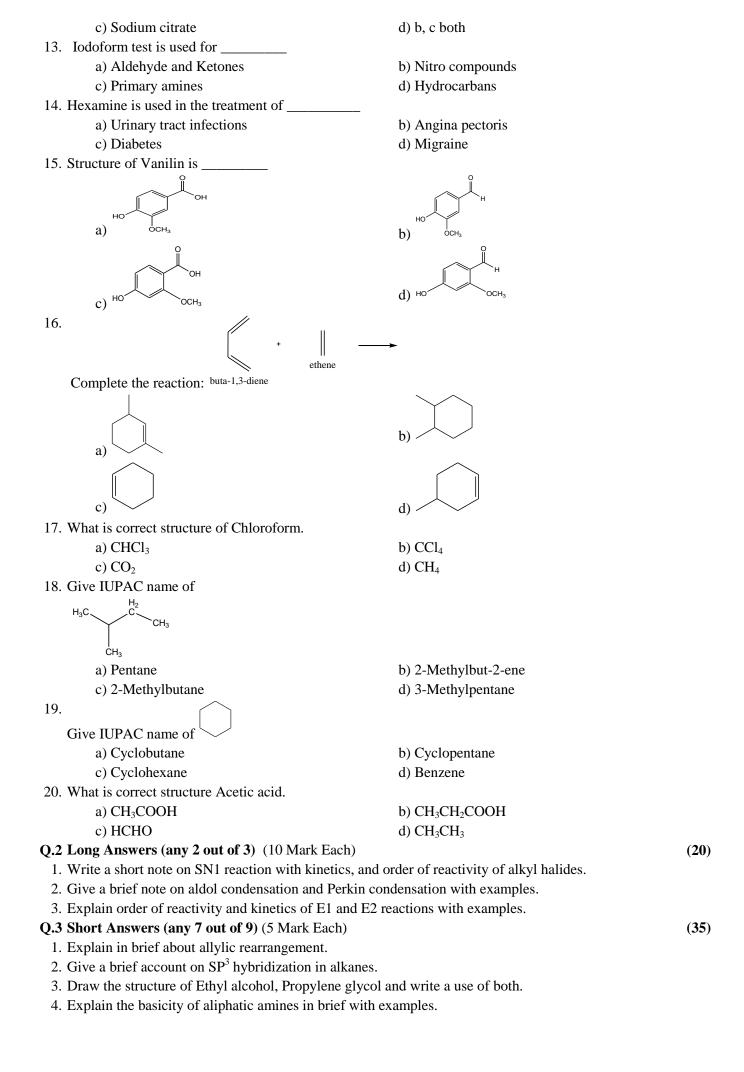
- d) Acid anhydride
- 11. Rate of reaction of the Lucas test of alcohol follows.....
 - a) $1^{\circ} > 2^{\circ} > 3^{\circ}$

b) $2^{\circ} > 1^{\circ} > 3^{\circ}$

c) $3^{\circ} > 2^{\circ} > 1^{\circ}$

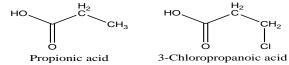
- d) None of above
- 12. Benedict's reagent contains .
 - a) KMnO4

b) CuSO4



5. Complete the reactions:

- 6. Give the structure of Formaldehyde, Cinnamaldehyde and write a uses of both.
- 7. Explain which one is more acidic.



- 8. Write short notes on structural isomerism of organic compounds.
- 9. Give structure and write uses of Ethanolamine, and Amphetamine.