

C.U.SHAH UNIVERSITY

Summer Examination-2022

Subject Name: Pharmaceutical Organic Chemistry I - Theory

Subject Code: BP202T

Branch: B.Pharm

Semester: 2

Date: 05/07/2022

Time: 11:00 To 02:00

Marks: 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

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- Q-1 Attempt the following questions: (20)**
- a) What do you mean by alicyclic and Acyclic compounds? Explain by giving proper examples. 2
 - b) Give reason: Why ketones are less reactive than aldehydes in nucleophilic addition reaction? 2
 - c) Corey House Reaction 2
 - d) Compare acidity of Benzoic acid, Acetic acid and Ethyl alcohol. 2
 - e) Kharash Effect 2
 - f) Differentiating tests for Ketone 2
 - g) How can you prepare halide from alcohol? 2
 - h) Define and classify amines. 2
 - i) Why even number of carbon containing alkanes have higher melting point? Explain. 2
 - j) Explain isomerism in alcohol 2
- Q-2 Attempt any two of following : (20)**
- A** Write a detail note on E1 and E2 reaction along with its reaction, mechanism, difference and explanation. 10
- B** What do you mean by Carbonyl carbon? Define carboxylic acid along with its method of preparation and applications. 10
- C** Write down following reactions: 10
- Aldol condensation
- Cross aldol condensation
 - Cannizaro Reaction
 - Benzoin Condensation
 - Perkin Condensation
- Q-3 Attempt any Seven of following : (35)**
- A** Write a detail note on isomerism 5
- B** What do you mean by Alcohol? Chemical Analysis of Alcohol (Difference between primary, secondary and tertiary alcohol) 5



C	Markovnikov and Anti-markovnikov Rule	5
D	Separation of primary, secondary and tertiary amines	5
E	Define Diene. Write down its method of preparation and chemical property.	5
F	Structure and uses of: Vanillin, Amphetamine	5
G	Physical property of Alcohol and Carboxylic acid	5
H	Define and classify: Halide. Write down physical properties of Alkyl Halide	5
I	Explain following:	5
	Esterification of Alcohol	
	Dehydrogenation of Alcohol	

