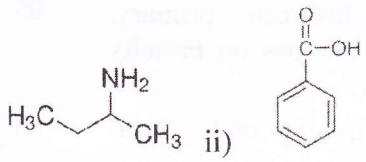
Year and Program – F.Y.B. Pharm. (B.Pharm.)	School of Pharmaceutical Sciences	Department – Pharmacy
Course Code – BP202T	Course Title- Pharmaceutical Organic Chemistry I	Semester –II[nd]
Date: 24/05/2024 Day: Friday Time: 2.00 pm-5.00 pm	Examination: End Semester	Max Marks: 75

Instructions: 1) All questions are compulsory.

2) Draw a well labelled diagram wherever necessary.

			Marks	Bloom's Level	CO
Q1		**Objective type questions (10X2)**	**20**		
	a)	Name the following structure by using IUPAC nomenclature,  i) ii)	02	L1	CLO2
	b)	Explain Saytzeff's rule in brief.	02	L2	CLO3
	c)	Outline any two reactions for preparation of alkane.	02	L2	CLO1
	d)	Discuss any two qualitative tests for amines.	02	L2	CLO4,5
	e)	Give the structure and uses of Salicylic acid.	02	L1	CLO4,5
	f)	Recall about statement and reaction of Perkin condensation reaction.	02	L1	CLO3
	g)	Give any two reactions for preparation of alcohols.	02	L1	CLO3
	h)	Draw the structure and write uses of Ethyl chloride.	02	L2	CLO3
	i)	Define and classify structural isomerism.	02	L1,2	CLO2
	j)	Write any two reactions for preparation of alkyl halide.	02	L1	CLO3
Q2		**Long answer question (Answer 02 out of 03)**	**20**		
	a)	Write a difference between SN^1 and SN^2 mechanism. Explain in detail with mechanism, steps and energy profile diagram for SN^1 reaction.	10	L2	CLO1

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1/2 ESE

	b)	What are the functional derivatives of carboxylic acids? Explain method of preparations and chemical reactions of carboxylic acids. Write the structure and uses of---- 1) Succinic Acid 2) Acetyl salicylic Acid	10	L1,2,6	CLO4,5
	c)	Explain in detail E^1 and E^2 reaction with suitable example. Describe factors affecting E^1 and E^2 reaction.	10	L2	CLO3
Q3		**Short Answer question (Answer 07 out of 09)**	**35**		
	a)	Define and classify organic compounds in detail with examples.	05	L1,2	CLO1
	b)	Elaborate on acidity of carboxylic acid. Justify how substituent on carboxylic acid affects acidity?	05	L1,6	CLO3,5
	c)	How will you distinguish between primary, secondary and tertiary alcohol? Explain qualitative tests for alcohol.	05	L1,2	CLO5
	d)	Write the structure and uses of- a) Iodoform b) Benzyl alcohol c) Lactic acid d)Formaldehyde e) Trichloroethylene	05	L1	CLO4,5
	e)	How will you distinguish between primary, secondary and tertiary amines? Discuss on basicity of amine.	05	L1,6	CLO5
	f)	Explain in detail Markownikoff and Anti-Markownikoff orientation.	05	L2	CLO3
	g)	Give a brief account on Cannizzaro and crossed Cannizzaro reaction with its mechanism.	05	L1	CLO3
	h)	Explain Aldol condensation and Cross Aldol condensation.	05	L2	CLO5
	i)	Describe free radical addition reaction of alkenes.	05	L2	CLO3

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