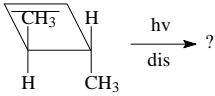
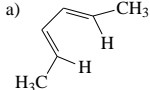
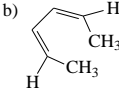
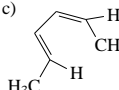
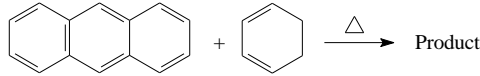
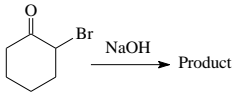
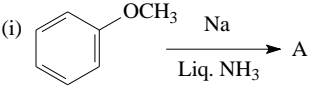
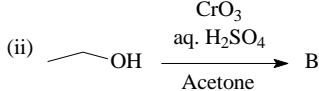
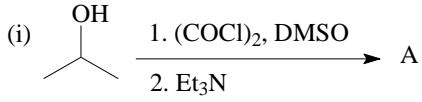
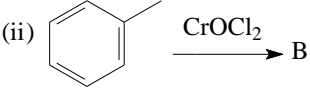
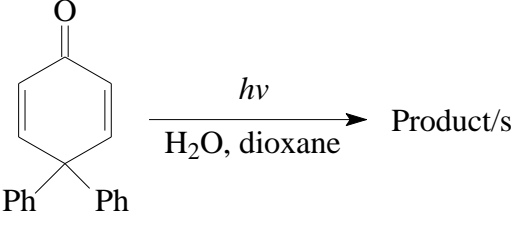
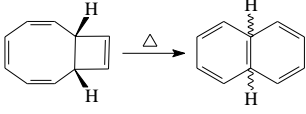


9.	Oxy-Cope reaction is an example of _____ reaction. a) Sigmatropic c) cycloaddition	b) electrocyclic d) both (a) & (b)	1	1
10.	The stable product formed in the following reaction is _____.  a)  b)  c)  d) both (b) & (c)		1	1
Q. No.	SECTION B		CO	KL
	Answer ALL the questions. (10 x 1 = 10 marks)			
	Fill in the blanks.			
11.	In Hofmann rearrangement the intermediate is _____.		2	2
12.	A base-catalyzed C-C bond-forming reaction between nitroalkanes and aldehydes or ketones is known as _____ reaction.		2	2
13.	Mention the role of BaSO ₄ in Rosenmund reduction.		2	2
14.	Predict the product in the following reaction. 		2	2
15.	What is photo quenching?		2	2
	Answer in a line or two.			
16.	Arrange the following in their increasing order of acidity. (C ₆ H ₅) ₃ CH, (C ₆ H ₅) ₂ CH ₂ , C ₆ H ₅ CH ₃ , CH ₄		2	2
17.	Give the product for the reaction of CH ₃ COCl with 2 moles of CH ₂ N ₂ and further workup with Ag ₂ O and H ₂ O.		2	2
18.	Mention is the use of co-solvent in oxidation reactions?		2	2
19.	Define phosphorescence.		2	2
20.	Illustrate cheletropic reaction.		2	2
Q. No.	SECTION C		CO	KL
	Answer any FOUR questions. (4 x 6 = 24 marks)			
21.	Explain Hoffman rearrangement reaction with suitable example.		3	3
22.	Write the mechanism of Sommelet-Hauser rearrangements.		3	3
23.	Explain the use of the following reagents with suitable examples. (i) PCC (ii) NaBH ₄ -CeCl ₃ (H ₂ O) ₇		3	3
24.	Discuss the Paterno Buchi reaction with suitable example.		3	3
25.	Draw correlation diagram for the electrocyclization of 1,3-butadiene by con rotation. Predict whether the reaction is thermally or photochemically allowed. (5)		3	3

Q. No.	SECTION D Answer any FOUR questions. (4 x 8 = 32 marks)	CO	KL
26.	Predict the product and justify your answer with suitable mechanism. 	4	4
27.	Explain the following with suitable example. (i) Dieckmann condensation (ii) Stork enamine reactions	4	4
28.	Predict the products (A & B) identify the name of the reaction. (4 + 4) (i)  (ii) 	4	4
29.	Discuss the following with suitable example. (i) di-pi methane rearrangement (ii) McLafferty rearrangement	4	4
30.	Explain the following with suitable examples. (i) Cope rearrangement (ii) Claisen rearrangement	4	4
Q. No.	SECTION E Answer the following questions. (2 x 12 = 24 marks)	CO	KL
31.	(a) Explain acyloin condensation reaction with suitable example. (6) (b) Discuss the mechanism of Mukaiyama-Aldol condensation reaction with suitable example. (6) (OR) 32. (a) Predict the products (A, B, & C) and identify the name of the reaction. (3x2) (i)  (ii)  (iii) $\text{CH}_3\text{COCl} + \text{H}_2 \xrightarrow{\text{Pd-BaSO}_4} \text{C}$ (b) Explain Baylis-Hillman reaction with suitable example. (6)	5	5
33.	a) Predict the product and discuss the photochemistry of the following reaction. (8)  b) What is Norrish type-I reaction? Give an example. (4) (OR)	3	3

34.	<p>(a) Explain the mechanism of the following reaction and predict the stereochemistry of the mentioned H atoms in the product. (6)</p>  <p>(b) Draw the correlation diagram for the cycloaddition of 1,3-butadiene and ethylene. Predict whether the reaction is feasible thermally or photochemically. (6)</p>	3	3
-----	---	---	---
