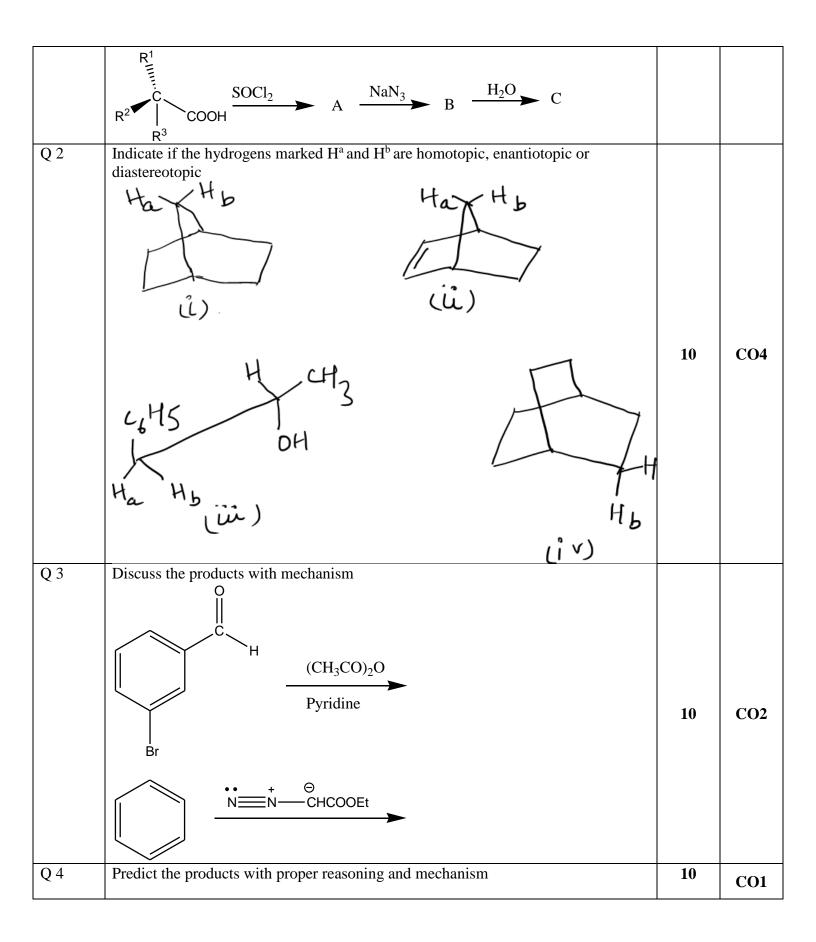
Name: Enrolment No: UNIVERSITY OF PETROLEUM AND ENERGY STUDIES						
Course: M.Sc Chem		r Examination, June 2021	Semester: 1	T		
		Time: 03 hrs				
Course Code: CHEM 7024 Max. Mark		: 100				
Instructions: Read th All questions are con		•				
SECTION A Instructions:						
1. Each Question wil 2. Answer should be 3. You have to very c S. No.						
				Marks	CO	
Q 1 Elucidate t H <sub>2</sub> C H <sub>2</sub> C $H_2$ C	$C$ $C$ $C$ $CH_3$ $H_2$ $H_2$ $NaC$	$\xrightarrow{\text{DEt}}_{6, 80^{0}\text{c}}$		5	CO1	
Q 2 Explain the	e product with mechanism			5	CO2	

	CH3 CH3-C-CH2CI OQKOH, GH3 CH3-C-CH2CI OQKOH, CH3-C-CH2CI OQKOH,		
Q 3	Write R and S configuration of the following compounds	5	
	$ \begin{array}{c} Br \\ HO \end{array} = C = C \\ HO \end{array} , \begin{array}{c} CI & Br \\ HO \end{array} \\ Br & Br & CI \end{array} $		CO3
Q 4	Write the most stable conformation of trans-1,4-dimethylcyclohehane along with newman projection	5	CO3
Q 5	Why acetolysis of anti-7-norbornenyl tosylate is faster than syn - isomer	5	CO2
Q 6	Discuss CIP rule	5	CO3
<b> </b>	SECTION B	1	
2. Wri	ctions: h question will carry 10 marks te short/brief notes of 1-2 page answer. w the neat diagram, to justify your answer as well as to score higher marks.		
Q 1	Explain the following reaction with mechanism	10	CO2



Q 1	i) Explain the reaction with mechanism	20	CO1
1. Ques <u>2. Inter</u>	tion is of 20 marks nal choices is there attempt any one of them.		
Instruc	SECTION C tions:		
Q 5	Discuss the structure, stability and stereochemistry of cis-Decalone and Trans- decalone	10	CO3
	$\int_{C} \int_{C} \int_{C$		
	0 c - cf 3		

