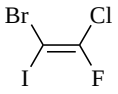
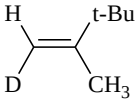
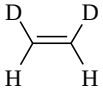
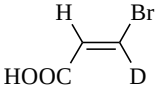
	Sanjay Ghodawat University, Kolhapur Established under section 2(f) of UGC Act 1956 Sanjay GhodawatUniversity Act XL of 2017 of Govt. of Maharashtra	2019-20 EXM/P/09/01

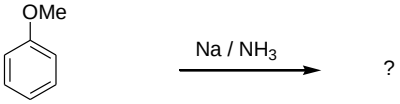
Year and Program:20 - MSc Chemistry	**School of Science**	**Department of Chemistry**
Course Code: CHS501	**Course Title: Organic Chemistry-I**	**Semester : I**
Day and Date:	**End Semester Exam**	**Time: 2Hr Max Marks: 50**

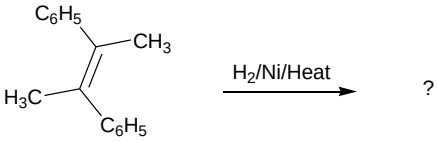
Instructions: 1. All questions are compulsory
2. Assume suitable data wherever necessary.
3. Figures to the right indicate full marks.

		Marks	Blooms Level	CO
Q.1	**Attempt any two of the following.**	**16**		
a)	What is carbocation? How they are generated? Discuses stability of carbocation	**8**	L2	CO1
b)	What is S_N2 reaction? Explain S_N2 reaction with its mechanism. Give evidence of mechanism?	**8**	L2	CO1
c)	Explain *Von Richter* rearrangement with mechanism and give its applications.	**8**	L3	CO2
Q.2	**Attempt any two of the following.**	**16**		
a)	Explain the following electrophilic substitution reactions. i) Sulphonation. ii) Friedel-Crafts acylation.	**8**	L3	CO2
b)	Give comparative account of E1, E2 and E1cb reaction	**8**	L2	CO3
c)	Assign *E* or *Z* configuration to the following compounds. Explain. A)  B)  C)  D) 	**8**	L4	CO4

Q.3 Attempt any two of the following. **18**

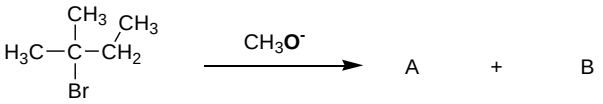
a) Complete following reaction and give stereochemistry of the product.

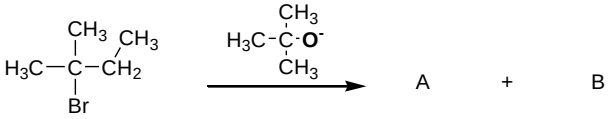
i) 

ii) 

9 L4 CO2

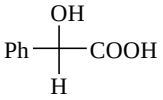
b) Give the productsand comment on the regioselectivity of the both reaction.

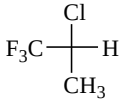
I) 

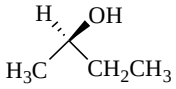
II) 

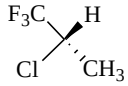
9 L4 CO3

c) Define isomerism. Assign *R* or *S* configuration to the following compounds. Justify

A) 

B) 

C) 

D) 

9 L4 CO4

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