

Enrollment No. _____



**NAVACHANA
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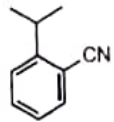
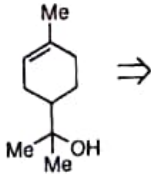
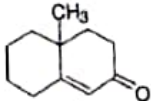
School: School of Science
 Program/s: M.Sc.-Chemistry
 Year: 2nd Semester: 3rd
 Examination: End Semester Examination
 Examination year: December - 2022

Course Code: CH223 Course Name: Advanced Synthetic Methods
 Date: 06/12/2022
 Time: 2:30 pm to 4:30 pm

Total Marks: 40
 Total Pages: 2

Instructions:

- Write each answer on a new page.
- Write in points and in brief.
- Please draw structures neatly
- * COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	COs*	BTL#
Q.1	Propose a retrosynthesis and synthesis of the following Target molecule using readily available reagents  TM	6	CO1 CO4	BT1. BT2 BT3 BT4
Q.2	Carry out the retrosynthesis and forward synthesis of the racemic terpeneol shown below  (±)-terpineol	6	CO1 CO2 CO3	BT1. BT3. BT4 BT5
Q.3	Propose a retrosynthetic analysis and synthesis of the target material given below 	6	CO1 CO3 CO4	BT1. BT2 BT3 BT4 BT5

Q.4	Propose a retrosynthetic analysis and synthesis of this antidepressant Venlafaxine	6	CO3, CO2 CO4	BT1, BT2, BT3
Q.5	Propose a retrosynthesis and synthesis for the following compound	6	CO1 CO3	BT1, BT2 BT3 BT4
Q.6	Propose a retrosynthesis of the following compound	6	CO1 CO3	BT1, BT2 BT3 BT4
Q.7	Propose a retrosynthetic scheme for the following heterocyclic compound	4	CO1 CO3	BT1, BT2 BT3 BT4

*****End of Question Paper*****