

Seat No.	
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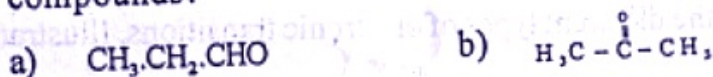
**B.Sc. (Part - III) (Semester - V) (CBCS)  
Examination, January - 2022  
CHEMISTRY  
Organic Chemistry (Paper - X)  
Sub. Code : 79683**

Day and Date Wednesday, 4 - 01 - 2023  
Time : 2.30 p.m. to 4.30 p.m.

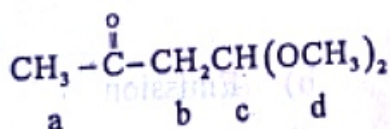
Total Marks : 40

- Instructions :
- 1) All questions are compulsory.
  - 2) Figures to the right indicate full marks.
  - 3) Spectroscopic chart is allowed.

Q1) A) Answer in one sentence [4]  
i) How many sets of equivalent protons present in the following compounds?



- ii) In which type of vibration, change in bond angle take place?
- iii) Which material are used to prepare rod of global source?
- iv) Which of hydrogens a-d in the following molecule gives a triplet signal in a normal  $^1\text{H}$  NMR spectrum?



B) Select most correct alternative among those given below and rewrite the sentences. [4]

- i) According to Woodward fieser rule, the increment for double bond extending conjugation is \_\_\_\_\_
- a) 5                      b) 15  
c) 12                      d) 30

P.T.O.

