



Date: 09-04-2019
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

PART-A

Answer ALL the questions. Each question carries two marks:

(10 x 2 = 20 marks)

1. What is regiospecific reaction?
2. Define disconnection approach.
3. Mention any two uses of DIBAL.
4. Write the Oppenauer oxidation reaction.
5. Write the reaction of cope rearrangement.
6. What are pericyclic reactions?
7. Give a method for the preparation of diazoacetic ester.
8. How will you arrive at the linear structure of diazomethane?
9. What are the precautionary measurements adopted while carrying out microwave synthesis?
10. What is atom economy in green synthesis?

PART-B

Answer EIGHT questions. Each question carries five marks:

(8 x 5 = 40 marks)

11. What is retro synthetic analysis? Explain with an example.
12. Explain Umpolung synthesis with suitable example.
13. Write the mechanism of oxidation of 2-propanol with DMSO-DCC.
14. Distinguish between LiAlH_4 and NaBH_4 reduction reaction with examples.
15. Discuss the rules for thermal and photochemical electrocyclic ring closure.
16. Explain group transfer reactions with suitable example.
17. Explain the FMO approach for cyclo addition reaction with a suitable example.
18. Discuss Cannizzaro reaction and explain the probable mechanism of this reaction.

