

APRIL 2017

1712101/UCYA11A

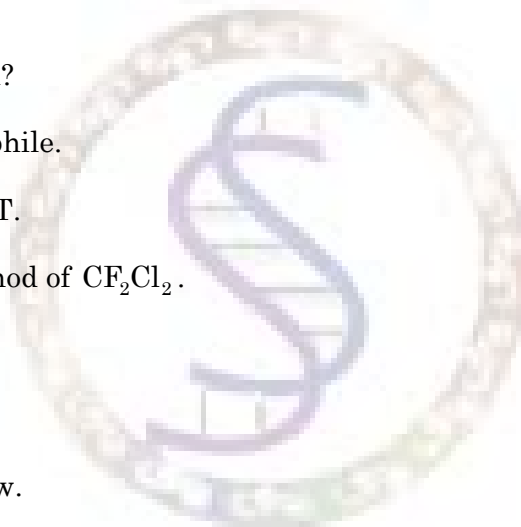
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What are isomers?
2. Give an example for fusion.
3. Define BOD.
4. Define hardness.
5. What is a fuel?
6. What is hyper conjugation?
7. Give examples for electrophile.
8. Write the structure of DDT.
9. Give one preparative method of CF_2Cl_2 .
10. What is Quantum yield?
11. State Einstein law.
12. State Grothus - Draper law.



SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Discuss group displacement law.
14. Write about reverse osmosis.
15. Discuss about resonance with a suitable example.
16. Write short note on free radical.
17. Discuss briefly the uses of BHC.
18. Describe the properties of Teflon.
19. Write short note on photosynthesis.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain the applications of radioisotopes.
21. Write short note on producer gas and LPG.
22. Explain the hybridisation involved in the following compounds.
 - (a) Methane
 - (b) Ethane
 - (c) Acetylene
 - (d) Benzene.

23. Explain the preparation and chemistry of pyridine.
 24. Discuss briefly the following : Photosensitization and fluorescence.
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