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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