APRIL - 1993
[RS 537]
Time : Three hours Meximum : 100 marks Answer SIX questions.
Question No. 1 and 5 are compulsory.

1. (a) Give a general classification of Heterocyclic compounds
with examples, add a note on their nomenclature.
(b) Explain the synthesis of quinoline and main reaction.

2. (a) Discuss the synthesis and chemistry of Anthracene,
with important reactions.
(b) Give the names and structures of medicinally impor-
(12 + 4 4 )
compounds of Anthracene.
3. (a) Discuss the stereochemistry of (i) Diphenyl molecule
(b) Write a brief account of Hybridization of orbitals.
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4. What do you understand by the term chirality ? make a molecule dissymmetric? Give one method for asymmetric synthesis.
5. Outline two methods each for the synthesis of the following :
(a) Indole
(b) Imidazole (c) Isoquinoline.
6. What type of compounds exhibit geometric isomerism? Explain how the configuration of geometric isomers can be established in the case of oximes, with suitable examples.
7. What is resolution? Give different methods that are employed with suitable examples. Write a note on Walden inversion.
