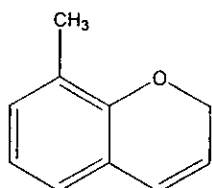


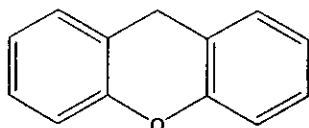
Answer ANY FIVE questions. Answers to all parts of a question should be at the same place of the answer-script and in the same order as they appear in the question paper.

1. (a) Give systematic nomenclature of the following compounds: [5 x 2]

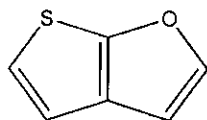
(i)



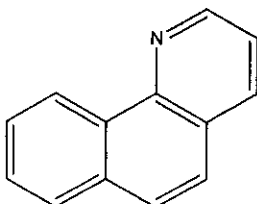
(ii)



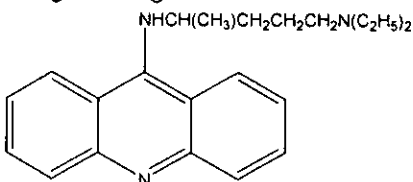
(iii)



(iv)



(v)



(b) Draw structures of the following heterocycles with numbering: [5 x 2]
(i) Piperidine; (ii) Piperazine; (iii) Purine; (iv) Isooxazole; (v) Tetrazole

2. Discuss the following reactions: [4 x 5]
(i) Reissert synthesis
(ii) Pictet Spengler synthesis

- (iii) Doebner von Miller synthesis
- (iv) Knorr pyrrole synthesis

3. Give an account of different reactions of pyrrole. [20]
4. Write a note on aromaticity and non-aromatic behavior of furan. [20]
5. Give an account of nomenclature of heterocyclic compounds. [20]
6. Give an account of reactions of (i) Thiophene, (ii) Quinoline [10+10]