APRIL - 1998
 mechanismes.

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APRIL- 1998
10. Define the terms (a) Optical activity (b) Plane polarised
light (c) Tautomers (d) Conformations (e) Recemic mixture.
11. Differentiate between the following :
(a) Asymetric and Disymetric molecules.
(b) Configuration and conformation.
(c) Absolute and partial asymetric aynthesis.
(d) Enantiomere and diaatereoisomera.
12. Give the atructure and use of the following :

| (a) Nikethamide | (b) Chloroquine | (c) Mepyraraine |
| :--- | :--- | :--- | :--- |


| (d) Sulphathiazole. |
| :--- | :--- |
| 13. Give the name structure and use of compounde |

containing the following heterocycles:
(a) Indole (b) Pyrrole
4. Give one method of preparation and any two reactiona

| (a) Quinoline (b) Puran | (c) |  |
| :--- | :--- | :--- |
| (d) Pyrrole (e) Thiophent. |  | $(5 \times 8=15)$ |

SECTION B - ( $6 \times 5=30$ marks $)$
Anewer any SIX questions.
5. Indicate the proferred position of attack on pyridine by electrophilic reagente and give reagons.
6. What are polynuclear hydrocarbone? Give examples. Give the different forms in which phenanthrene can exist. 7. Qive the howarth synthesis of Naphthalene and give any two important ractiona of Naphthalene with

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[^0]:    e. What happens when

    $$
    \begin{aligned}
    & \text { (a) Purfuryl alcohol is treated with methanolic HCl } \\
    & \text { (b) Pyrrole is treated with boiling alkali and CHCls. } \\
    & \text { (c) Sodium succinate is heated with phosphorus } \\
    & \text { trisulfide. } \\
    & \text { (d) Quinoline is trested with benzoylchloride in } \\
    & \text { presence of Alkali. } \\
    & \text { (o) Pyridine }-2,3 \text {-dicarboxylic acid is heated atrongly. } \\
    & \text { 9. Compare the reactivity of Benzens, thiophene, furan } \\
    & \text { and pyrrole towards electrophilic aubstitution. }
    \end{aligned}
    $$

