

- 6) Perbenzoic acid is prepared by adding chloroform and sodium methoxide into solution of:
- (a) Di benzoyl peroxide (b) Benzoic acid
 (c) Di benzoyl oxide (d) None of these
- 7) In Retro synthesis, what is the full form of FGI?
- (a) Functional group interaction (b) Functional group intra conversion
 (c) Functional group initial conversion (d) Functional group inter conversion
- 8) BF_3 is found to be used as catalyst in:
- (a) Paint (b) Varnish (c) Polymerization of oil (d) None of these

Q.2: Answer the following questions in brief. (Any Seven) (14)

- 1) Write the mechanism of darzen condensation.
- 2) Hofmann rearrangement is intra molecular. Explain it with suitable example.
- 3) Write the applications of Knoevenagel condensation reaction.
- 4) Write the mechanism of Benzidine rearrangement.
- 5) Write the mechanism of Leuckart's reaction.
- 6) What are the advantages of BF_3 over AlCl_3 ?
- 7) Write the preparations of Dicyclohexyl carbodiimide.
- 8) Write the preparations of Platinum and Palladium.
- 9) Define the following terms:
 - (a) Retro synthesis (b) Synthons.

Q.3 (A): Describe the Aldol condensation reaction in detail. (6)

Q.3 (B): Describe the Cannizzaro reaction in detail. (6)

OR

Q.3 (B): Describe the Peachmann reaction in detail. (6)

Q.4 (A): Describe the Hofmann rearrangement in detail. (6)

Q.4 (B): Describe the Pinacol rearrangement in detail. (6)

OR

Q.4 (B): Describe the Curties rearrangement in detail. (6)

Q.5 (A): Explain the Ozone in detail. (6)

Q.5 (B): Answer the following questions. (6)

- 1) Write the applications of Dicyclohexyl carbodiimide.
- 2) Write the any two applications of Per benzoic acid in detail.

OR

Q.5 (B): Explain the Periodic acid in detail. (6)

Q.6 (A): Carry out Retro synthetic analysis of following compounds. (6)

- 1) Ofornine
- 2) Ocfentanil

Q.6 (B): Write the Guidelines, which are used in Retro synthesis. Explain any two with examples. (6)

OR

Q.6 (B): Explain the Merwein Pondort reaction in detail. (6)

Best of Luck