

**G 241**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2003.

Second Semester

Fashion Technology

CH 236 — ORGANIC CHEMISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

- 1.- What is the effect of prolonged heating of glucose with Conc. Hydroiodic Acid?
2. What is the product of reaction between Conc. Hydrochloric Acid and sucrose on boiling?
3. How do you get leadtetraethyl from ethyl magnesium iodide?
4. Define Acid value of an oil.
5. What is the chromophore in trinitro benzene?
6. What is the product of reaction between pyridine and conc. Sulfuric acid at 350°C?
7. What is bee wax?
8. What happens when protein is denatured?
9. How do you get colour base from leuco base?
10. Name two antimalarial drugs.

11. (i) Explain the structure of cellulose. (10)
- (ii) Write note on reactive dyes. (6)
12. (a) Explain
- (i) Reaction with mechanism of Glucose with excess phenyl hydrazine. (12)
- (ii) How Carboxyl methyl cellulose is formed from cellulose? (4)
- Or
- (b) (i) How do you convert ketohexose into aldohexose? (10)
- (ii) Write chemical reactions of starch. (6)
13. (a) How do you prepare the following from Grignard Reagent?
- (i) Acetic Acid. (5)
- (ii) Ethylamine. (5)
- (iii) Methyl thioalcohol. (6)
- Or
- (b) How do you prepare the following from Grignard Reagent?
- (i) Sulphinic Acid. (5) ✓
- (ii) Acetaldehyde. (5) ✓
- (iii) Diethylketone. (6) ✓
14. (a) Explain halogenation, sulphonation, reduction and chichibabin reactions of pyridine. (16)

Or

- (b) Explain reduction, nitration, sulphonation and mercuration reactions of Indole. ✓ (16)

15. (a) How do you prepare

(i) Eosin dye. ✓

(8)

(ii) Sulphanilamide.

(8)

Or

(b) How do you prepare

(i) Congo Red. ✓

(8)

(ii) Alizarin. ✓

(8)