

Seat No.	
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M.Sc. (Part - II) (Semester - IV) Examination, March- 2023

**ORGANIC CHEMISTRY**

**Applied Organic Chemistry (Paper-XVI)**

**Sub. Code : 81567/86734**

Day and Date : Monday, 19 - 06 - 2023

Total Marks : 80

Time : 10.30 a.m. to 1.30 p.m.

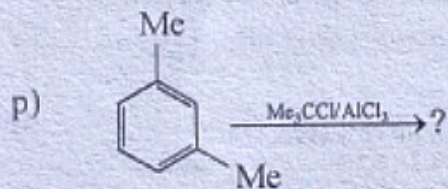
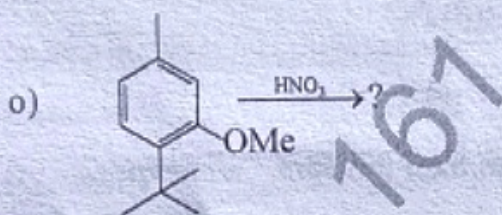
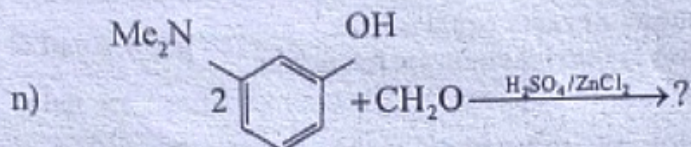
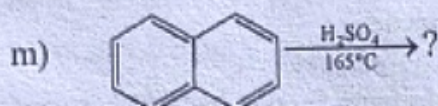
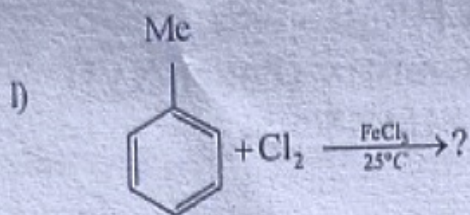
- Instructions :
- 1) Attempt in all the five questions.
  - 2) Question number one is compulsory.
  - 3) Attempt any two questions from Section I and II.
  - 4) Answers to all questions should be written in one answerbook.
  - 5) All questions carry equal marks.
  - 6) Figures to the right indicate full marks.

Q1) A) Answer the following: (One mark each) [16]

- a) What do you mean by IPM?
- b) Draw the structure of martius yellow.
- c) Give any two examples food flavours.
- d) Which reaction is used in the synthesis of aldrin?
- e) What is viscous Rayon?
- f) State following statement true or false.  
Cellulose is semi synthetic polymer.
- g) How recovery of aniline is carried out in Bechamp reduction?
- h) Give oxides of nitrogen used in nitration reaction.
- i) What is importance of fluorine derivatives of organic compounds?
- j) Define thermoplastic polymer. Give one example.
- k) Draw the structure of JH-II.

P.T.O.

B) Predict the product(s)

**SECTION - I**

Q2) a) Give the methods of synthesis and applications of the following. [10]

- i) Musk xylone
- ii) Dieldrin
- iii) Malachite green

b) What are optical brighteners? Explain their importance. [6]

- Q3) a) Give a detail account of unit process involved in the sulphonation of benzene. [10]  
b) What are herbicides? Discuss synthesis of triazoles. [6]
- Q4) a) What are polyesters? Explain synthesis of any two polyesters. [8]  
b) What are nitro dyes? Describe synthesis of any two nitro dyes. [8]

### SECTION - II

- Q5) a) Discuss classification of Dyes. Illustrate the importance of reactive dyes. [8]  
b) Write the methods of synthesis and applications of [8]  
i) Musk ambrette  
ii) Vaniline
- Q6) a) What is halogenation? Discuss in detail Wacker process for manufacture of tetrachloroethane. [10]  
b) What are resins? Discuss synthesis of Bakelite resin. [6]
- Q7) Write short note on the following (any four) : [16]  
a) Natural polymers.  
b) Photochlorination.  
c) Plasticizers.  
d) Importance of Juvenile hormone.  
e) Synthetic Musk.

