

AC-1564

M. Sc. (Part - II) (Sem. IV) Examination April/May - 2015

Organic Chemistry: Paper - II

(Industrial Chemicals & Process) (Regular & Evening)

Time: 3 Hours [Total Marks: 70

Instructions:

િનીચે દર્શાવેલ 👉 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.	Seat No.:
Fillup strictly the details of 🖝 signs on your answer book.	
Name of the Examination :	
M. SC. (PART - II) (SEM. IV)	
Name of the Subject :)
◆ ORGANIC CHEMISTRY : PAPER - II	
Subject Code No.: 1 5 6 4 Section No. (1, 2,): Nil	Student's Signature

- (2) All questions are compulsory.
- (3) Figures to the right indicate full marks of the question.
- Q.1 Answers any three of the following.

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- a. What is sulphation, sulphamationand sulphonation? State different sulphonating and sulphating agents. Discuss industrially important compounds obtained by sulphonation of benzene and its homologues.
- b. What is nitration? Name the different nitrating agents. Discuss about industrial important chemicals derived by nitration from anthracene.
- c. Explain unit process. How is amination carried out for the manufacturing of chemicals on large scale? Give the industrially obtained chemicals that are obtained by ammonolysis.
- d. Describe halogenation reactions with examples. Explain the chlorination and bromination in the manufacture of industrially important chemicals.
- Q.2 Answers any three of the following.

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- a. What are petrochemicals? Discuss how industrially obtained chemicals by C_3 and C_4 cuts.
- b. Explain crude petroleum. Discuss how industrially obtained chemicals from acetylene.

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- c. Discuss the industrial manufacturing and uses of vinyl polymers and elastomers.
- d. What are polymers? How are they classified? Name the techniques of polymerization. Discuss any one of them in detail.
- Q.3 Give the industrial production and uses of following

With diagram (Any three)

- a. Acetone
- b. MIBK
- c. Power alcolol
- d. Ethylene glycol
- Q.4 Answers any four of the following.

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- a. How ethanol amines are industrially prepared? Give its industrial applications with diagram.
- b. Define alkylation. Discuss industrially important alkyl compounds derived by various routes.
- .c. Give brief account on polyesters.
- d. Give the industrial production and uses of Benzyl penicillin with diagram.
- e. Write short note on techniques of polymerization.