



KT-1809

Seat No. _____

M. Sc. (Sem. IV) Examination

April / May - 2013

Organic Chemistry : Paper - II

CHN - 702 (O)

Time : 3 Hours]

[Total Marks : 70

Instruction : All questions carry equal marks.

1 Answer any two : 14

- (1) Mention the important chemicals obtained by industrial methods from C_1 and C_2 fraction. Discuss their uses in detail.
- (2) Describe the petrochemicals obtained from propylene and butylene.
- (3) Give the different between Natural and synthetic fibers. Describe production of polyamide fibers with one example.

2 (a) Answer any one : 4

- (1) What is emulsion paints ? Give manufacturing process.
- (2) Classify varnishes. Discuss the manufacture of varnish.

(b) Answer any two : 10

- (1) Write a note on Toxic chemical agents.
- (2) What is propellants ? Explain Rocket and Missile propellants.

(3) Give synthesis and uses of the following any two :

- (i) Hexyl
- (ii) Tetracene
- (iii) HMX.

3 (a) Answer any one : 4

- (1) What is copolymer ? Give an account of manufacture of ethylene copolymer.
- (2) Write a note on manufacture of phenol formaldehyde resins.

(b) Answer any two : 10

- (1) Explain cyclization reaction in polymer with illustrations.
- (2) Discuss the manufacture and characterisation of Nylon and Bakelite.
- (3) What is Acrylic polymer ? Discuss any two.

4 (a) Answer any one : 4

- (1) Give the manufacturing process of safety matches.
- (2) Give the manufacturing process of candle.

(b) Answer any two : 10

- (1) Give the types of pen ink and explain indiakink.
- (2) Give steps and tips for stain removal.
- (3) Give the manufacturing process of phenyl disinfectants.
- (4) Describe soap manufacturing process.

5 Answer any seven :

14

- (1) Give uses of Ethane and propane
 - (2) Write a note on liquid paint removers.
 - (3) Write a special applications of paints.
 - (4) Give the classification of explosives.
 - (5) What is cross linkage reaction ?
 - (6) What is HDPE and LDPE ?
 - (7) What is cordite ? Explain.
 - (8) Give the composition and toxicology of shoe polish.
 - (9) Give uses of gum paste.
 - (10) Give a name of anionic surfactants in detergent.
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