



AAI-4509

Seat No. _____

M. Sc. (Sem. IV) Examination

April / May - 2018

Organic Chemistry : CHN - 702 (O)

Time : 3 Hours]

[Total Marks :

1 Answer any two :

- (1) How acetylene is obtained on a large scale in industry ? Give the manufacture of industrially important chemicals from acetylene.
- (2) Classify synthetic fibres. Give an account for manufacture of terylene.
- (3) Explain the process of refining of crude oil.

2 Answer any three :

- (1) Discuss the methods of applying paints.
- (2) Give any two reasons for paint failure. Discuss the manufacture of varnishes.
- (3) Discuss manufacture of Nitroglycerine and Dynamite.
- (4) Give an account on toxic chemicals used in war.
- (5) Write a note on the industrial uses of explosives.

3 Answer any three :

- (1) Classify resins. Write a note on silicon resin.
- (2) Give a detailed account of co-polymers of ethylene.

- (3) What is acrylic polymer ? Discuss any two acrylic polymers.
- (4) What is polyethylene polymer ? Write note on L.D.P.E. and H.D.P.E. polymer with their uses.
- (5) Explain cross linking in polymer with illustration.

4 Answer any three :

- (1) How can you prepare shoe polish ?
- (2) Give the manufacturing process of phenyl disinfectants.
- (3) Discuss the small scale manufacturer of safety matches.
- (4) Give the steps and tips for stain removal.
- (5) Discuss the small scale manufacture of writing ink.

5 Answer any seven :

- (1) Which are disinfectants in commercial phenyls ?
- (2) Give the name of anionic surfactants in detergents.
- (3) Which solvents and thinners are used in waxes ?
- (4) Define the term addition and substitution polymerisation.
- (5) What is gun powder ?
- (6) What are the uses of Teflon ?
- (7) What is emulsion paints ?
- (8) Give the composition and toxicology of shoe polish ?
- (9) What are the main use of polymethyl methacrylate ?
- (10) Give full form and structure of RDX and PETN.