## 22611

## 23124 3 Hours / 70 Marks

Seat No.

Instructions – (1) All Questions are Compulsory.

- (2) Answer each next main Question on a new page.
- (3) Illustrate your answer with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

## 1. Attempt any FIVE of the following:

- a) List any four names of refineries.
- b) Define :
  - i) Octane number
  - ii) Cetane number.
- c) Define cracking process.
- d) List out two petrochemicals derived from C3.
- e) List the names of four oil producing countries in the world with their percentage share in world crude oil production.
- f) List any two petrochemicals derived from aromatics with its structure.
- g) Give any two uses of
  - i) Methanol
  - ii) Vinyl Chloride

Marks

- a) Describe atmospheric distillation unit with diagram.
- b) Describe manufacturing of butadiene with flowsheet and reactions.
- c) List any two petrochemicals obtained from C1 and describe manufacturing of methanol with flowsheet and reactions.

Marks

12

## 6. Attempt any <u>TWO</u> of the following:

- a) Define :-
  - i) Smoke point
  - ii) Pour point
  - iii) Flash point
  - iv) Aniline point
- b) Describe cascade sulfuric acid alkylation process.
- c) Describe with a flow diagram manufacturing of propylene oxide.