

## Model Question Paper

### SUB: Petrochemical Technology

#### 2 mark Questions

1. What were the causes and effects of the energy crisis?
2. What is energy crisis how can it be prevented?
3. What are the solutions of energy crisis ?
4. What are the ecological impact of energy crisis?
5. What is a Integrated petroleum complex? What are the advantages of it?
6. What are the theories involved in origin of petroleum.
7. Why desalination is necessary for crude oil before sending to the distillation unit ?
8. What are the difference between LPG and CNG ?
9. What are the reactions involved in manufacturing of butadiene ?
10. What are the reactions involved in manufacturing of ethanol?

#### 6 Marks Questions

1. What are the different types of lubricants? Write short notes on each.
2. What are lubricants ? What are the properties of a good lubricant?
3. Describe different trends of modern petroleum industry with some of the roughly statistics of growth.
4. What is meant by dehydration of crude? Explain briefly.
5. Describe crude oil distillation.

#### 10 Marks Question

1. Explain the manufacturing of Styrene with a neat flow sheet.
2. Explain the manufacturing of Aniline with a neat flow sheet.
3. What is meant by BTX. Write the different useful products derived from BTX and their usage.
4. How Ethyl alcohol is manufactured industrially. Explain with a neat flow sheet.

5. What is a synthesis gas ? How methanol can be produced from the synthesis gas?