



Printed Pages : 3

TCH-23

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 0805**

Roll No.

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B. Tech.

(SEM. VII) EXAMINATION, 2008-09  
PETROLEUM ENGINEERING

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions.

1 Attempt any two parts of the following :

- What are the various theories for the genesis of petroleum? Give the brief explanation of oil and gas exploration.
- What are the various factors responsible for decision making in selection of processes and process scheme for a given refinery?
- Name all the refineries of India and discuss the product wise status of refinery production in India.

2 Attempt any four parts of the following :

- What is cetane number? Explain its significance.
- What is smoke point? What is its importance and how is it measured?



- (c) What is Aniline point? What is the indication of high aniline point?
- (d) What do you mean by cloud and pour point of petroleum products?
- (e) What is silver strip corrosion test for aviation turbine fuel?
- (f) What is Ramsboltom method for carbon residues?

3 Attempt any **four** parts of the following :

- (a) What is the composition of gasoline?
- (b) What is knocking and what are the various antiknock compounds used?
- (c) What are the various additives used in diesel fuels?
- (d) Classify various types of petroleum waxes.
- (e) What are various types of petroleum cokes and what are their uses?
- (f) What is the need for desalting of crude oil? Explain one of the process of desalting the crude oils.

4 Attempt any **two** parts of the following :

- (a) What is visbreaking? Explain with the help of neat flow sheet.
- (b) What is catalytic isomerization? Explain UOP penex process with the help of flow sheet.
- (c) What is sulfolane process? Explain and describe the process.

5 Attempt any **two** parts of the following :

- (a) Explain solvent dewaxing and its importance. Describe ketone dewaxing process.
- (b) What are the various process variables in solvent deasphalting? Explain the importance of solvent deasphalting.
- (c) What is Bitumen and what are the various processes for manufacturing of Bitumen? Describe any one of them in detail.

