

Total No. of Questions : 6]

SEAT No. :

**P270**

[Total No. of Pages : 1

**Oct./BE/Insem. - 588**  
**B.E. (Chemical)**  
**PETROLEUM REFINING**  
**(2015 Pattern) (Semester - I) (409344D) (Elective - I)**

*Time : 1 Hour]*

*[Max. Marks :30*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4 and Q.5 or Q.6.*
- 2) *Figures to the right indicates full marks.*
- 3) *Neat diagram must be drawn wherever necessary.*
- 4) *Assume Suitable data if necessary.*

**Q1) a)** Write in detail about production of crude oil and natural gas. **[6]**

b) Discuss the test and properties of kerosene & lube oil. **[4]**

OR

**Q2) a)** Write in detail about formation of petroleum. **[5]**

b) Describe drilling for oil and gas. **[5]**

**Q3) a)** Write in detail about moisture removal of crude oils. **[5]**

b) Explain different types of impurities present in crude and its effect on operation. **[5]**

OR

**Q4)** Describe Vacuum Distillation Unit with suitable diagram and distinguish between ADU and VDU? **[10]**

**Q5) a)** What is cracking operation? Differentiate between thermal cracking and catalytic cracking? **[6]**

b) Explain Hydro cracking operation. **[4]**

OR

**Q6)** What is reforming process? Describe reforming process with schematic diagram. **[10]**