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Code No: 137SU

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, October/November - 2020

PETROLEUM REFINERY ENGINEERING

(Petroleum Engineering)

Time: 2 hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

1. How do you explain the classification of Crude oil? Will the classification is based on Composition? Explain in detail the composition and properties of crude petroleum.[15]
2. What do you mean by Crude distillation curves? What information will be obtained from them? Explain the significance by taking any one crude example system. [15]
3. What are Automotive diesel fuels? At what stage of refining these products will be obtained? Explain the significance and special characteristics of these products for different industrial applications. [15]
4. What do you mean by crude oil topping units? Discuss in detail about atmospheric topping unit with a neat sketch. [15]
5. Explain the process of Fluidized bed catalytic cracking (FCC) with a neat sketch. [15]
6. What is the difference between coal and coke? Compare and contrast following processes:
a) delayed coking, and b) flexi coking. [15]
7. What is moving bed hydro process (MBHP)? Where this process is needed? With a neat flow diagram explain the process variables associated with MBHP. [15]
- 8.a) Will waste water needs treatment before disposal? Explain the control strategies of waste water treatment.
b) Explain briefly about Sulphur recovery processes. [8+7]

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