Paper / Subject Code: 41977 / Technology Stram - Petroleum Refining Technology (DLOC - IV)

June 12, 2024 10:30 am - 01:30 pm 1T00537 - B.E.(Chemical Engineering)(SEM-VII) (Choice Base Credit Grading System) (R- 2019-20) (C Scheme) / 41977 - Technology Stram - Petroleum Refining Technology (DLOC - IV) QP CODE: 10056881

[3 Hours] [Total Marks: 80]

Instructions to the candidates if any:-

- 1. Question No 1 is compulsory
- 2. Attempt any three questions from the remaining five questions
- 3. Assume suitable data wherever necessary
- 4. Figures to the right indicate full marks.

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Q. No. 1 Explain the following:	£3,
a. Origin and formation of petroleum	[05]
b. Overhead corrosion in distillation unit	[05]
c. Liquid Paraffin	[05]
d. Equilibrium Flash Vaporisation and Engler distillation	[05]
Q. No. 2 a) Explain the methods for dehydration of crudes.	[10]
b) Explain the thermal properties of petroleum fractions.	[10]
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Q. No. 3 a) Name the treatment methods for gasoline and explain any one of them.	[10]
b) Explain Furfural extraction of lubes with the help of neat flow diagram.	[10]
Q. No. 4 a) Explain Two stage distillation Process with neat flow diagram.	[10]
b) Explain LPG production process by absorption Technique.	[10]
Q. No.5 a) Explain visbreaking Process in detail	[10]
b) Explain hydrocracking process in detail with the help of neat flowsheet.	[10]
Q.No.6 Write short notes on the following (any Four)	[20]
a. ASTM distillation	
b. Pumping of waxy crudes	
c. Atmospheric distillation Unit	
d. Catalytic cracking and Thermal cracking	
e. Types and sources of Asphalt	