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Roll No.

G81

B. Tech. EXAMINATION, 2020

(Seventh Semester)

(B Scheme) (Main & Re-appear)

(CHE)

CHE401B

PETROLEUM ENGINEERING

Time : 2½ Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Four* questions in all. All questions carry equal marks.

1. (a) What are the pretreatment processes of crude oil ?
(b) Discuss the origin, composition, classification and constituents of crude oil.
2. (a) What is vacuum distillation ?
(b) What is the chain length and boiling point of the various products of refinery ?
3. (a) Explain in detail the delayed coking.
(b) What do you mean by catalytic reforming process ?
4. (a) What is Pyrolysis ?
(b) Discuss hydrocracking in detail.
5. Explain any *two* with neat diagram :
 - (a) Chilling dewaxing
 - (b) Doctor's Sweetening process
 - (c) Deasphalting.
6. Discuss the importance of the following processes in short :
 - (a) Isomerization process
 - (b) Alkylation
 - (c) Polymerization.

7. Write short notes on any *three* of the following :
- (a) Flash and fire point
 - (b) Cetane number
 - (c) Pour and cloud point
 - (d) Smoke point
 - (e) Viscosity index.
8. Explain the following :
- (a) Storage and handling of liquid fuel oils
 - (b) Octane number.