

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester: 5th
Subject Code: 03602309
Subject Name: PRPT

Date: 09/08/2022
Time: (1hr: 30min)
Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

- Q.1 Answer any six out of Ten. (2 Marks Each) (12)**
1. What is need of Primary Treatment of crude oil?
 2. Define Cloud Point and Pour Point.
 3. Draw flow Diagram of Visbreaking.
 4. What is Petroleum?
 5. Write full form of 1. ASTM 2. GAIL 3. ONGC 4. API
 6. Define Cetane Number with significance.
 7. List out Physical Properties of Diesel.
 8. Define Penetration Number with significance.
 9. Write down refinery products with their boiling points.
 10. What is Adiabatic flame temperature?
- Q.2 A) Describe Composition of Petroleum. (03)**
- OR**
- A) Describe Classification of Petroleum. (03)
 B) Explain ADU with flow diagram in detail. (03)
- OR**
- B) Explain VDU with flow diagram in detail. (03)
 C) List Out methods of Desalting. Explain any one method in Detail with neat Flow Diagram. (04)
- OR**
- C) Explain Hydro cracking in short with neat flow diagram. (04)
 D) Write Purpose of Reforming. Explain Reforming Process with neat Flow diagram. (04)
- Q.3 A) Differentiate Thermal and Catalytic Cracking. (03)**
- OR**
- A) Discuss History and Growth of Petroleum industry in India. (03)
 B) Draw Figure of Pipe Still Heater and Explain in Detail. (03)
- OR**
- B) Explain Delayed Coking in detail with neat flow diagram. (03)
 C) List out Four Important Testing methods of Kerosene and Define any two in detail with significance. (04)
- OR**
- C) List out Four Important Testing methods of Gasoline and Define any two in detail with significance. (04)
 D) Explain FCC with Flow Diagram. (04)

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