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Roll No.	Total No. of Pages:02
Total No. of Questions:09	
B.Tech.(Petroleum Refinary Engineeri PETROLEUM REF Subject Code:B	INING – II
Paper ID:[74	037]
Time:3 Hrs.	Max. Marks:60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

1. Answer briefly :

- a) Why the sequence is followed to remove ethane, propane, butane and isobutene?
- b) Why methanation cannot be avoided in the hydrogen production process?
- c) What primary disadvantage exists by using live steam in the CDU columns?
- d) What are the operating conditions for catalytic cracking?
- e) What is the function of riser in FCC?
- f) Why naptha stabilization is required after cracking process?
- g) Compare MBCR and FCCR.
- h) What is the function of drier in isomerisation process?
- i) Why is hydrogen used in the reforming reaction?
- j) Definitions of hydroprocessing, hydrotreating and hydrocracking.



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SECTION-B

- 2. Explain Hydro-cracking with neat sketch. Why two phase separators are used for the reactor product in hydrocracking flowsheet?
- 3. What is FCC? Discuss about FCC regenerator with neat sketch.
- 4. Give classification of Hydrocarbons, and discuss Olefinic petrochemicals with applications.
- 5. Describe the various methods of coke formation.
- 6. Why the naphtha stream after absorption and phase separation enters a stripping unit?

SECTION-C

- 7. Describe Process Technology with flow sheet for Naphtha & Gas oil hydrotreating.
- 8. Explain three basic reaction steps to achieve alkylation. What are the reaction conditions & process technology for Sulfuric acid based alkylation?
- 9. Explain Visbreaking with a neat flow sheet.