on. 2903-09.

## (REVISED COURSE)

(3 Hours)

[ Total Marks: 100

- .B.: (1) Question No. 1 is compulsory (2) Attempt any four questions out of the remaining six questions.
  - (3) Figures to the right indicate full marks,
  - (4) Neat diagrams must be drawn wherever necessary.
- Explain the following: -

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- (a) Aniline point
- (b) Smoke point and fire point

(c) Flash point

- (d) Viscosity index
- (e) Viscosity gravity constant
- (f) Cetane number
- Discuss in brief the process of phenol extraction process for lubricating oil. What 10 2. (a) are the advantages of using phenol over furfural?
  - Discuss the methods available for the Kerosene Treatment. Explain any one process 10 (b) in detail.
- Explain Hydro forming process in detail. (a)

- Why isomerisation is carried out ? List various isomerisation processes. Write 10 (b) in detail about aluminium Chloride isomerisation process in detail.
- Give the composition of Asphalt. What is the action of heat on Asphalt ? Explain 10 air blowing of bitumen process with proper Flow diagram.
  - (b) (i) Distinguish between U.O.P. Characterization factor and Correlation index 10
    - (ii) ASTM distillation and TBP distillation.
- (a) Write in detail the process of visbreaking giving operation, conditions and neat 10 Flow Diagram.
  - Define and discuss, importance of following: -(b) Decoking operation.

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Explain Ketone Dew axing process in detail with the diagram. (a)

- Blending, is an important operations in refinery, justify the statement. How effective 10 (b) blends can be produced? Explain briefly a about Gasoline Blending.
- What are the pollution associated with petrochemical plants how it can be prevented? 10 (a) Explain briefly.
  - Write short notes on Selecto Forming Process. (b)

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