

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI**  
**(MID SEMESTER EXAMINATION SP/2024)**

**CLASS: B.TECH.**  
**BRANCH: CHEMICAL ENGG.**

**SEMESTER : VI**  
**SESSION : SP/2024**

**SUBJECT: CL355 PETROCHEMICALS TECHNOLOGY**

**TIME: 02 Hours**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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			CO	BL
Q.1(a)	What was the first chemical made from petroleum product? What was first public sector petrochemical plant in India?	[2]	1	1
Q.1(b)	What is the significance of water removal from NG? Briefly describe the Selexol process with flow diagram.	[3]	1	1,2
Q.2(a)	How is butadiene separated from C4 complex in naphtha cracking unit?	[2]	1	2
Q.2(b)	Briefly explain the gas stream processing in naphtha cracking unit.	[3]	1	2
Q.3(a)	Explain the UOP integrated aromatic complex separation process with appropriate process flow diagram.	[10]	2	2
Q.4(a)	Briefly explain UOP Tatoray process with appropriate process flow diagram.	[5]	2	2

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