



III SEMESTER B. TECH (IP ENGG.) END SEMESTER

MAKE UP EXAMINATIONS DECEMBER 2018

SUBJECT: PLANT LAYOUT AND MATERIAL HANDLING [MME 2112]

REVISED CREDIT SYSTEM

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitably assumed.

- 1A. What are the major factors considered in selecting location for plastic industries in Bombay? **05**
- 1B. With neat sketch differentiate between Process and product layout. **05**
- 2A. Explain with example any one qualitative techniques of plant location **04**
- 2B. What do you mean by combination lay out? Give example. **03**
- 2C. What are objectives of good layout? Explain with example. **03**
- 3A. Explain how building features will affect the layout. **04**
- 3B. What do you mean by layout versatility and layout expansion? **03**
- 3C. A schedule calls for 2000pieces/week. The first machine turns out 10 pieces/hour and operates 40 hours a week. Determine how many machines are required. Assume 100 percent machine utilization. **03**
- 4A. Explain with sketch different location of storing. **05**
- 4B. Explain with sketch different material flow pattern. **05**
- 5A. Explain any one method of evaluation of alternate lay out **03**
- 5B. What are the scope and purpose of material handling? **03**
- 5C. What are the criteria for selecting material handling device. **04**