



III SEMESTER B.TECH (IP ENGG.) END SEMESTER EXAMINATIONS, NOVEMBER 2017

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 principal factors considered in location of steel Industries in Bihar? | 05 |
| 1B. | Explain any one semi quantitative techniques of plant location. | 05 |
| 2A. | What is plant layout? Name different types of lay out with example. | 03 |
| 2B. | What are the advantages and disadvantages of product layout? | 03 |
| 2C. | Compare the Economics of various types of layout with a line diagram | 04 |
| 3A. | Name the principles of layout. | 02 |
| 3B. | What are the objectives of good layout? | 03 |
| 3C. | Explain how physical and chemical characteristics of materials will influence the layout? | 03 |
| 3D. | A schedules calls for 2000pieces/hour. First machine turns out 10pieces/hour and operates 40 hours a week. Determine how many machines are required .Assume 100% machine utilization. | 02 |
| 4A. | What are the various consideration in waiting factor influencing the layout? | 03 |
| 4B. | What are the factors Which makes layout flexible? | 02 |
| 4C. | Explain the methods of Evaluating the alternative layout. | 05 |
| 5A. | Explain the scope and importance of Material handling. | 03 |
| 5B. | What are the principles of Material handling? | 02 |
| 5C. | What are the factors considered in selection of Material handling Equipment? | 03 |
| 5D. | Explain Any one Material handling device with example. | 02 |