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MANIPAL INSTITUTE OF TECHNOLOGY
Manipal University, Manipal – 576 104



**III SEM. B.Tech. (I.P.) ENGG. DEGREE EXAMINATIONS
NOV/DEC 2015**

**SUBJECT: Plant Layout and Material Handling (MME2112)
REVISED CREDIT SYSTEM**

Time: 3 Hours.

MAX.MARKS: 50

Instruction to Candidates:

❖ Answer **ALL** questions.

- 1A)** What are the principal factors considered in location of Steel Industries in Bihar.? **(05)**
- 1B)** Explain Brown and Gibson Multi-Attribute plant location model. **(05)**
- 2A)** Distinguish between layout by product and layout by process with sketch. **(05)**
- 2B)** Briefly discuss the principles of a good plant lay out. **(05)**
- 3A)** Explain how Design and specification of product and physical and chemical characteristics of materials affects the lay out. **(04)**
- 3B)** Schedules calls for 2000 pieces/week. The first machine turns out 10pieces/hour and operates 40 hours a week. Determine how many machines are required. Assume 100% machine utilization. **(03)**
- 3C)** Write a Note on Combination layout with sketch. **(03)**
- 4A)** Plant Layout and Material handling should go with hand in hand. Justify this statement. **(03)**
- 4B)** Discuss different methods of analyzing flow of materials. **(03)**
- 4C)** Name ten fundamentals in planning the layout. **(04)**
- 5A)** Explain different principles of Material handling. **(04)**
- 5B)** Explain any two methods of evaluating alternative layout. **(03)**
- 5C)** Explain with sketch any one Material Handling device. **(03)**

