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**MANIPAL INSTITUTE OF TECHNOLOGY**  
Manipal University, Manipal – 576 104



**III SEM. B.TECH ( INDUSTRIAL & PRODUCTION ENGG.) DEGREE  
EXAMINATIONS DEC. 2015/JAN.2016 (MAKE UP)**

**SUBJECT: PLANT LAYOUT AND MATERIAL HANDLING (MME 2112)  
REVISED CREDIT SYSTEM**

Time: 3 Hours.

MAX.MARKS: 50

**Instruction to Candidates:**

❖ Answer **ALL** questions.

- 1A)** Explain any one type of semi quantitative technique used for evaluation of plant location. **(05)**
- 1B)** Explain principal consideration for location of plastic Industries in Bombay. **(05)**
- 2A)** Explain how the considerations of safety and working conditions of personnel significant to a layout engineer. **(03)**
- 2B)** What are the methods of improving man utilization? Explain. **(03)**
- 2C)** What is Material Handling? Explain the principles of Material handling . **(04)**
- 3A)** Explain in detail various features of service factors. **(05)**
- 3B)** Explain different patterns of flow of materials. **(05)**
- 4A)** Write a note on Fixed position Layout. **(03)**
- 4B)** What do you mean by lay out Versatility? **(03)**
- 4C)** Explain the Economics by the types of Layout. **(04)**
- 5A)** Explain briefly scope and importance of material handling. **(05)**
- 5B)** What are the factors considered in selection of material handling equipment ?.Explain with sketch any one Transportation device used in material handling. **(05)**