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MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
A Constituent Institution of Manipal University

III SEMESTER B.TECH. (I & P ENGINEERING)

END SEMESTER MAKE UP EXAMINATIONS, DEC 2016/JAN 2017

SUBJECT: PLANT LAYOUT AND MATERIAL HANDLING [MME 2112]

REVISED CREDIT SYSTEM
 (04/01/2017)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

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

- 1A. Briefly discuss the factors influencing the plant location. (05)
- 1B. Explain any six objectives of a good layout. (03)
- 1C. Discuss when a single storey building can be used. (02)
- 2A. Explain the layout used for mass production with example. (05)
- 2B. Briefly discuss the importance of man factor for planning a new layout. (05)
- 3A. Explain the different planning aids used for preparing a layout. (05)
- 3B. Enumerate and explain all the aspects of service factor so far as its influence on plant layout is concerned. (05)
- 4A. Briefly discuss the Ranked Position Weight Method used for balancing the assembly line with example. (05)
- 4B. Explain the different steps used in scientific approach for solving a plant layout problem. (03)
- 4C. State the different methods used for evaluating a new layout. (02)
- 5A. Define material handling. What are its objectives? (03)
- 5B. Briefly discuss the preventive methods used for reducing accidents while handling of materials. (03)
- 5C. Sketch and explain any two combination devices used for material handling. (04)