

**QP Code : 8134****REVISED COURSE****(3 Hours)****Total Marks: 100****NB:**

1. Question No 1 is Compulsory
2. Attempt any 4 questions of the remaining 6 questions
3. Figures to the right indicate full marks
4. Assume suitable data wherever necessary

**Q1. Write short notes on the following (any 4)**

- a. KANBAN
- b. Major types of layouts in the manufacturing setup
- c. Job selection in work study
- d. Ergonomics
- e. Therbligs and its application
- f. Value Engineering

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**Q2. Write a short note on**

- a. Work study and its application
- b. Tools for SQC

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**Q3. Explain in detail**

- a. JIT philosophy
- b. Evolution and architecture of ERP

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**Q4. Explain the following management philosophies in tandem**

- a. LEAN and WASTE MANAGEMENT
- b. TQM and BPR

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**Q5. Discuss the following**

- a. Need of computers in industrial engineering
- b. Implementation of ERP

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**Q6. Elaborate the procedure for the following**

- a. Selection of Control Chart for variable and attribute type of data
- b. Method Study

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**Q7. Comment on the following (any 4).**

- a. Histogram and its application
- b. Modules in ERP
- c. MRP-I and MRP-II
- d. Cost of Quality
- e. Process Capability
- f. Productivity

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