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Roll No

AU/IP/IEM/ME/TX/PR-601

B.E. VI Semester

Examination, June 2016

Operation Management

Time: Three Hours

Maximum Marks: 70

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Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

- ii) All parts of each question are to be attempted at one place.
- iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.
- iv) Except numericals, Derivation, Design and Drawing etc.
- State Little's Law. State its applications.
 - What do you mean by the term "order qualifiers" and "order winners", Explain?
 - Explain Porter's five forces model.
 - Explain the term Productivity. State its types. Discuss factors affecting it.

OR

Define ERP, WIP. Discuss in detail the procedure of doing SWOT analysis.

- State Valerie's service quality model.
 - Compare traditional vs concurrent design.
 - What is meant by standardization? How it is advantageous in designing? State its limitations.
 - Draw PLC (Product Life Cycle) with its all phases. Discuss characteristics of all the phases with suitable examples.

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OR

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Explain the terms Design of Manufacturing (DFM) and Design for Environment (DFE). Discuss why it is important?

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- Explain the funnel marble experiment.
 - Explain Taguchi loss function. Discuss "cost of quality".
 - Discuss chain action of improving quality to productivity to motivation and low cost.
 - Define and explain the terms "six sigma" and "TQM".

OR

Write short note on following:

- i) ISO-9000 ii) Bath-tub curve.
- Differentiate between process layout and product layout.
 - State and draw basic plant layouts.
 - Explain Brown-Gibson Model.
 - What do you mean by Group Technology? Discuss in detail. State its advantages and limitations.

OR

Explain dimensional and factor analysis methods.

- Define the terms: JIT, Kaizen and Sequencing.
 - Briefly describe the Delphi Technique.
 - Write short note on "Lean Manufacturing".
 - Explain the following terms:
 - i) Aggregate planning
 - ii) Matching supply to demand fluctuations over time horizon.
 - iii) Computer program CRAFT.

OR

Explain the following terms:

- i) Forecasting tool
- ii) Assembly line balancing
- iii) Master production schedule and material planning.

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PTO