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Roll No

AU/IP/ME/TX-601

B.E. VI Semester

Examination, June 2013

Operation Management

Time: Three Hours

Maximum Marks : 100

Minimum Pass Marks :35

Note: Attempt one question from each unit. All questions carry equal marks.

Unit - I

- 1. a) What advantages are desired from efficient operations management.
 - b) What do you understand by product design and development.

OR

- 2. a) Define productivity. Discuss the factors which increase the productivity of a manufacturing unit.
 - b) Discuss and compare MTO and BTO production strategy.

Unit - II

- 3. a) Explain product life cycle when and why is it necessary to launch a new product.
 - Discuss the service triangle of customer, provider and system in product life cycle management.

OR

- 4. a) Explain i) Product design by Evolution.
 - ii) Product design by innovation.

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PTO

b) Discuss valerie's service quality model.

Unit - III

- 5. Write short notes on:
 - i) Reliability
- ii) Bath tub curve

iii) MTBF

iv) Preventive maintenance

OR

- 6. a) Explain the significance of Taguchi loss function in quality maintenance.
 - b) What is six sigma. Explain it's relevance in operations management. www.rgpvonline.com

Unit - IV

- 7. a) What are the objectives of a good plant layout. Bring out the comparision between product and plant layout.
 - b) Discuss the problem of inventory flow in process layout.
- 8. a) What do you mean by plant location. Discuss the major factors governing plant location.
 - b) Compare the advantage and disadvantages of urban and rural location for a Automobile plant.

Unit - V

- 9. a) What is the importance of production planning and control in success of an business organisation.
 - b) Define following terms used in line balancing.
 - i) Balance delay
- ii) Line efficiency
- iii) Smoothness index
- iv) Cycle time

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