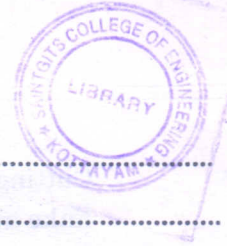


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Reg. No.....

Name.....



B.TECH. DEGREE EXAMINATION, MAY 2015

Eighth Semester

Branch : Mechanical Engineering

ME 010 803—PRODUCTION ENGINEERING (ME)

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 3 marks.

1. Explain the effects of friction in machining process.
2. What is machinability ?
3. What are the needs of powder metallurgy ?
4. Write a note on composites.
5. Write a note on EDM.

(5 × 3 = 15 marks)

Part B

Answer all questions.

Each question carries 5 marks.

6. Differentiate oblique and orthogonal cutting.
7. Explain the structure and composition of HSS.
8. Explain the micromachining process.
9. Explain phase diagram of Al_2O_3 .
10. Write a note on LIGA process.

(5 × 5 = 25 marks)

Part C

Answer all questions.

Each question carries 12 marks.

11. In an orthogonal cutting operation, the following data have been observed :

Uncut chip thickness = 0.127 mm.

Width of cut = 6.35 mm.

Turn over

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Reg. No.....

Name.....



B.TECH. DEGREE EXAMINATION, MAY 2015

Eighth Semester

Branch : Mechanical Engineering/Automobile Engineering

AU 010 802/ME 010 802—OPERATIONS MANAGEMENT (AU, ME)

(New scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A

*Answer all questions.
Each question carries 3 marks.*

1. What are the objectives of operation management ?
2. What is product structure ?
3. Differentiate scheduling and sequencing.
4. Explain the need for replacement.
5. Define supply chain.

(5 × 3 = 15 marks)

Part B

*Answer all questions.
Each question carries 5 marks.*

6. Explain different types of decisions with example.
7. Write a note on DRP.
8. Explain Johnson's algorithm.
9. Distinguish individual and group replacement policies.
10. Write a note on ERP.

(5 × 5 = 25 marks)

Part C

*Answer all question.
Each question carries 12 marks.*

11. Compute the adjusted exponential forecast for the first week of March for a firm with the following

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