

Code No: 07A3EC05

R07**Set No. 2****II B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010****PRODUCTION TECHNOLOGY**

Common to Mechanical Engineering, Mechatronics, Automobile Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. (a) How do you differentiate metal working processes from metal cutting processes?
(b) Differentiate hot working and cold working. [8+8]
2. (a) Explain the effect of thermal conductivity and thermal expansion on welding process?
(b) Why are residual stresses important in welded components? Describe the methods used for relieving or reducing residual stresses in welds? [8+8]
3. (a) Name the various heating equipments used in forging process? Explain the computer functioning of black smith's forging furnace?
(b) What do you understand by the term flash in a forging? Explain with the help of a sketch? [8+8]
4. Write a short notes on:
(a) Mechanical presses
(b) power presses. [16]
5. (a) Give the complete classification of welding processes.
(b) What is the purpose of pre and post heat treatment in welding operation? [8+8]
6. (a) What are the advantages of casting process over other shaping processes?
(b) Give an account of different pattern materials. [8+8]
7. (a) How are risers and sprues placed in sand molds? Explain with appropriate sketches.
(b) Describe the procedures that would be involved in making a bronze statue? Which casting process(es) would be suitable? Why? [8+8]
8. (a) Explain the thermosetting plastics and thermoplastic plastics clearly?
(b) Explain the method used for processing thin hollow plastics with a neat sketch? [8+8]

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R07**Set No. 4****II B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010****PRODUCTION TECHNOLOGY**

Common to Mechanical Engineering, Mechatronics, Automobile Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. (a) How do you differentiate metal working processes from metal cutting processes?
(b) Differentiate hot working and cold working. [8+8]
2. (a) Explain the thermosetting plastics and thermoplastic plastics clearly?
(b) Explain the method used for processing thin hollow plastics with a neat sketch? [8+8]
3. Write a short notes on:
(a) Mechanical presses
(b) power presses. [16]
4. (a) What are the advantages of casting process over other shaping processes?
(b) Give an account of different pattern materials. [8+8]
5. (a) Explain the effect of thermal conductivity and thermal expansion on welding process?
(b) Why are residual stresses important in welded components? Describe the methods used for relieving or reducing residual stresses in welds? [8+8]
6. (a) Give the complete classification of welding processes.
(b) What is the purpose of pre and post heat treatment in welding operation? [8+8]
7. (a) How are risers and sprues placed in sand molds? Explain with appropriate sketches.
(b) Describe the procedures that would be involved in making a bronze statue? Which casting process(es) would be suitable? Why? [8+8]
8. (a) Name the various heating equipments used in forging process? Explain the computer functioning of black smith's forging furnace?
(b) What do you understand by the term flash in a forging? Explain with the help of a sketch? [8+8]

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R07**Set No. 1****II B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010****PRODUCTION TECHNOLOGY**

Common to Mechanical Engineering, Mechatronics, Automobile Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. (a) Explain the effect of thermal conductivity and thermal expansion on welding process?
(b) Why are residual stresses important in welded components? Describe the methods used for relieving or reducing residual stresses in welds? [8+8]
2. Write a short notes on:
(a) Mechanical presses
(b) power presses. [16]
3. (a) Give the complete classification of welding processes.
(b) What is the purpose of pre and post heat treatment in welding operation? [8+8]
4. (a) Explain the thermosetting plastics and thermoplastic plastics clearly?
(b) Explain the method used for processing thin hollow plastics with a neat sketch? [8+8]
5. (a) How are risers and sprues placed in sand molds? Explain with appropriate sketches.
(b) Describe the procedures that would be involved in making a bronze statue? Which casting process(es) would be suitable? Why? [8+8]
6. (a) Name the various heating equipments used in forging process? Explain the computer functioning of black smith's forging furnace?
(b) What do you understand by the term flash in a forging? Explain with the help of a sketch? [8+8]
7. (a) What are the advantages of casting process over other shaping processes?
(b) Give an account of different pattern materials. [8+8]
8. (a) How do you differentiate metal working processes from metal cutting processes?
(b) Differentiate hot working and cold working. [8+8]

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R07**Set No. 3****II B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010****PRODUCTION TECHNOLOGY**

Common to Mechanical Engineering, Mechatronics, Automobile Engineering

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions

All Questions carry equal marks

1. (a) What are the advantages of casting process over other shaping processes?
(b) Give an account of different pattern materials. [8+8]
2. (a) Give the complete classification of welding processes.
(b) What is the purpose of pre and post heat treatment in welding operation? [8+8]
3. (a) Explain the thermosetting plastics and thermoplastic plastics clearly?
(b) Explain the method used for processing thin hollow plastics with a neat sketch? [8+8]
4. (a) How are risers and sprues placed in sand molds? Explain with appropriate sketches.
(b) Describe the procedures that would be involved in making a bronze statue? Which casting process(es) would be suitable? Why? [8+8]
5. (a) How do you differentiate metal working processes from metal cutting processes?
(b) Differentiate hot working and cold working. [8+8]
6. (a) Explain the effect of thermal conductivity and thermal expansion on welding process?
(b) Why are residual stresses important in welded components? Describe the methods used for relieving or reducing residual stresses in welds? [8+8]
7. (a) Name the various heating equipments used in forging process? Explain the computer functioning of black smith's forging furnace?
(b) What do you understand by the term flash in a forging? Explain with the help of a sketch? [8+8]
8. Write a short notes on:
(a) Mechanical presses
(b) power presses. [16]
