Code No: 07A42102 | R07 | SET-1

B.Tech II Year - II Semester Examinations, April-May, 2012
AIRCRAFT PRODUCTION TECHNOLOGY
(Aeronautical Engineering)

Time: 3 hours **Max. Marks: 80**

Answer any five questions
All questions carry equal marks

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1. Explain in detail about hydraulic shaper mechanism with a neat sketch. [16]

2. Explain in detail how a boiler barrel is formed by plate rolling with neat sketches. [16]

3. Write short notes on:
   (a) Acoustic Holography (b) Ultrasonic testing
   (c) Six – sigma quality [6+6+4]

4.a) Describe in detail arc welding
b) Differentiate between welding and brazing [8+8]

5. Write short notes on the following:
   (a) Electrical Discharge Machining (b) Electro-Chemical Grinding
   (c) Laser beam machining (d) Micro-welding by Laser Beam. [16]

6 What are the general rules for a good casting design? [16]

7.a) Discuss the causes of residual stresses and how they can be controlled.
b) Explain case hardening [8+8]

8. Write short notes on: [4+4+4+4]
   (a) Tool guiding elements (b) Wedge clamps
   (c) Locking devices (d) Plastics as fixture component material.

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Code No: 07A42102 | R07 | SET-2

B.Tech II Year - II Semester Examinations, April-May, 2012
AIRCRAFT PRODUCTION TECHNOLOGY
(Aeronautical Engineering)

Time: 3 hours **Max. Marks: 80**

Answer any five questions
All questions carry equal marks

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1. Write short notes on:
   (a) Acoustic Holography (b) Ultrasonic testing
   (c) Six – sigma quality [6+6+4]

2.a) Describe in detail arc welding
b) Differentiate between welding and brazing [8+8]

3. Write short notes on the following:
   (a) Electrical Discharge Machining (b) Electro-Chemical Grinding
   (c) Laser beam machining (d) Micro-welding by Laser Beam. [16]

4 What are the general rules for a good casting design? [16]

5.a) Discuss the causes of residual stresses and how they can be controlled.
b) Explain case hardening [8+8]

6. Write short notes on: [4+4+4+4]
   (a) Tool guiding elements (b) Wedge clamps
   (c) Locking devices (d) Plastics as fixture component material.

7. Explain in detail about hydraulic shaper mechanism with a neat sketch. [16]

8. Explain in detail how a boiler barrel is formed by plate rolling with neat sketches. [16]

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Code No: 07A42102 | R07 | SET-3

B.Tech II Year - II Semester Examinations, April-May, 2012
AIRCRAFT PRODUCTION TECHNOLOGY
(Aeronautical Engineering)

Time: 3 hours **Max. Marks: 80**

Answer any five questions
All questions carry equal marks

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1. Write short notes on the following:
   (a) Electrical Discharge Machining (b) Electro-Chemical Grinding
   (c) Laser beam machining (d) Micro-welding by Laser Beam. [16]

2 What are the general rules for a good casting design? [16]

3.a) Discuss the causes of residual stresses and how they can be controlled.
b) Explain case hardening [8+8]

4. Write short notes on: [4+4+4+4]
   (a) Tool guiding elements (b) Wedge clamps
   (c) Locking devices (d) Plastics as fixture component material.

5. Explain in detail about hydraulic shaper mechanism with a neat sketch. [16]

6. Explain in detail how a boiler barrel is formed by plate rolling with neat sketches. [16]

7. Write short notes on:
   (a) Acoustic Holography (b) Ultrasonic testing
   (c) Six – sigma quality [6+6+4]

8.a) Describe in detail arc welding
b) Differentiate between welding and brazing [8+8]

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Code No: 07A42102 | R07 | SET-4

B.Tech II Year - II Semester Examinations, April-May, 2012
AIRCRAFT PRODUCTION TECHNOLOGY
(Aeronautical Engineering)

Time: 3 hours **Max. Marks: 80**

Answer any five questions
All questions carry equal marks

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1.a) Discuss the causes of residual stresses and how they can be controlled.
b) Explain case hardening [8+8]

2. Write short notes on: [4+4+4+4]
(a) Tool guiding elements (b) Wedge clamps
(c) Locking devices (d) Plastics as fixture component material.

3. Explain in detail about hydraulic shaper mechanism with a neat sketch. [16]

4. Explain in detail how a boiler barrel is formed by plate rolling with neat sketches. [16]

5. Write short notes on:
(a) Acoustic Holography (b) Ultrasonic testing
(c) Six – sigma quality [6+6+4]

6.a) Describe in detail arc welding
b) Differentiate between welding and brazing [8+8]

7. Write short notes on the following:
(a) Electrical Discharge Machining (b) Electro-Chemical Grinding
(c) Laser beam machining (d) Micro-welding by Laser Beam. [16]

8 What are the general rules for a good casting design? [16]

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