

Code No: 07A42102

R07

Set No. 2

**II B.Tech II Semester Examinations, APRIL 2011
AIRCRAFT PRODUCTION TECHNOLOGY
Aeronautical Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Discuss about defects in heat treatment.
(b) Hardening of steel always followed by tempering, Discuss. [8+8]
2. Write short notes on:
 - (a) Cylindrical locating pins
 - (b) Diamond locators
 - (c) Cam operated clamps. [16]
3. (a) With neat schematic diagram, explain the Electron Beam Machining process?
(b) Explain, why Electron Beam is enclosed in Vacuum? [10+6]
4. (a) What are the various types abrasives in grinding.
(b) Explain various bonds and bonding processes. [8+8]
5. (a) What is meant by stripper ?
(b) Briefly explain the working principles of various strippers. [8+8]
6. Explain the method of insulating riser and using exothermic reaction to increase the efficiency of the riser. [16]
7. With neat sketches describe the appearance and properties of:
 - (a) Neutral flame
 - (b) carburizing flame
 - (c) Oxidizing flame. [6+5+5]
8. Write short notes on:
 - (a) Acoustic Holography
 - (b) Scanning acoustical holography
 - (c) Fluoracent powder test. [6+6+4]

Code No: 07A42102

R07

Set No. 4

**II B.Tech II Semester Examinations, APRIL 2011
AIRCRAFT PRODUCTION TECHNOLOGY
Aeronautical Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. Write short notes on:
 - (a) Acoustic Holography
 - (b) Scanning acoustical holography
 - (c) Fluoracent powder test. [6+6+4]
2. (a) With neat schematic diagram, explain the Electron Beam Machining process?
(b) Explain, why Electron Beam is enclosed in Vacuum? [10+6]
3. Write short notes on:
 - (a) Cylindrical locating pins
 - (b) Diamond locators
 - (c) Cam operated clamps. [16]
4. (a) What is meant by stripper ?
(b) Briefly explain the working principles of various strippers. [8+8]
5. With neat sketches describe the appearance and properties of:
 - (a) Neutral flame
 - (b) carburizing flame
 - (c) Oxidizing flame. [6+5+5]
6. (a) What are the various types abrasives in grinding.
(b) Explain various bonds and bonding processes. [8+8]
7. (a) Discuss about defects in heat treatment.
(b) Hardening of steel always followed by tempering, Discuss. [8+8]
8. Explain the method of insulating riser and using exothermic reaction to increase the efficiency of the riser. [16]

Code No: 07A42102

R07

Set No. 1

**II B.Tech II Semester Examinations, APRIL 2011
AIRCRAFT PRODUCTION TECHNOLOGY
Aeronautical Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Discuss about defects in heat treatment.
(b) Hardening of steel always followed by tempering, Discuss. [8+8]
2. Write short notes on:
(a) Cylindrical locating pins
(b) Diamond locators
(c) Cam operated clamps. [16]
3. (a) What are the various types abrasives in grinding.
(b) Explain various bonds and bonding processes. [8+8]
4. Explain the method of insulating riser and using exothermic reaction to increase the efficiency of the riser. [16]
5. Write short notes on:
(a) Acoustic Holography
(b) Scanning acoustical holography
(c) Fluoracent powder test. [6+6+4]
6. With neat sketches describe the appearance and properties of:
(a) Neutral flame
(b) carburizing flame
(c) Oxidizing flame. [6+5+5]
7. (a) With neat schematic diagram, explain the Electron Beam Machining process?
(b) Explain, why Electron Beam is enclosed in Vacuum? [10+6]
8. (a) What is meant by stripper ?
(b) Briefly explain the working principles of various strippers. [8+8]

Code No: 07A42102

R07

Set No. 3

**II B.Tech II Semester Examinations, APRIL 2011
AIRCRAFT PRODUCTION TECHNOLOGY
Aeronautical Engineering**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Discuss about defects in heat treatment.
(b) Hardening of steel always followed by tempering, Discuss. [8+8]
2. Write short notes on:
(a) Cylindrical locating pins
(b) Diamond locators
(c) Cam operated clamps. [16]
3. Write short notes on:
(a) Acoustic Holography
(b) Scanning acoustical holography
(c) Fluoracent powder test. [6+6+4]
4. Explain the method of insulating riser and using exothermic reaction to increase the efficiency of the riser. [16]
5. (a) What is meant by stripper ?
(b) Briefly explain the working principles of various strippers. [8+8]
6. (a) What are the various types abrasives in grinding.
(b) Explain various bonds and bonding processes. [8+8]
7. (a) With neat schematic diagram, explain the Electron Beam Machining process?
(b) Explain, why Electron Beam is enclosed in Vacuum? [10+6]
8. With neat sketches describe the appearance and properties of:
(a) Neutral flame
(b) carburizing flame
(c) Oxidizing flame. [6+5+5]
