

Code No: 07A42102

R07

Set No. 2

II B.TECH II SEM–REGULAR/SUPPLEMENTARY EXAMINATIONS MAY - 2010

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) Hardenability of Steel

(b) Quenching.

[16]

2. (a) What is the principle cause of cracks in weld metal?

(b) What are the methods of controlling warping during welding?

[8+8]

3. With neat diagram explain Ultrasonic Testing Procedure of important castings and weldments. Discuss the basic equipment used. [16]

4. (a) Explain how various alloys can be classified.

(b) Explain how aluminum alloys classified when used for aircraft application.

[8+8]

5. Explain working principle of various parts in a lathe with a neat line sketch. [16]

6. (a) Define the spring back phenomenon?

(b) How to evaluate the spring back phenomenon by elimination method? [8+8]

7. (a) “Jigs are most widely used in Drilling Operation” Justify.

(b) “Design of Jigs and Fixtures is a creative design” Explain.

[10+6]

8. (a) Explain the circuits used for Electrical Discharge Machining power supply!

(b) What are different di-electrical fluids used in Electrical Discharge Machining?

[8+8]
