

Code No: 07A42102

R07

Set No. 1

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. Describe the following with neat sketches.
 - (a) Solid forming dies.
 - (b) Pad type forming dies.
 - (c) Curling dies. [6+5+5]
2. (a) What do you understand by the term gating system?
 - (b) State the main requirements expected of an ideal gating system. [8+8]
3. Explain salient parts in the equipment for oxyacetylene gas welding with neat sketches. [16]
4. (a) What are different tool materials used in Electro-Chemical Machining?
 - (b) Compare the metal removal rate of Electro-Chemical Machining conventional Machining.
 - (c) Discuss whether Electro-Chemical Machining is suitable for machining all types of materials. [6+5+5]
5. (a) Differentiate between Jigs and Fixtures.
 - (b) Classify Jigs and Fixtures. [10+6]
6. (a) Why must drills and reamers with three or more cutting edges be employed for enlarging holes?
 - (b) Explain how it is often necessary to bore a drilled hole even though it is of accurate dimension. [8+8]
7. (a) Discuss about control Charts.
 - (b) Discuss Acceptance Sampling. [8+8]
8. (a) Discuss the alloying elements which improves strength of pure titanium.
 - (b) Discuss the application of titanium and its alloys. [8+8]
