

R09**Code: 9A21405****B.Tech II Year II Semester (R09) Supplementary Examinations May/June 2017****AIRCRAFT PRODUCTION TECHNOLOGY****(Aeronautical Engineering)**

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 Explain investment casting process with neat sketch. Discuss the process capabilities and their applications.
- 2 Explain salient parts in the equipment for oxyacetylene gas welding with neat sketches.
- 3 (a) What are the various types of abrasives in grinding.
(b) Explain the working of CNC machining.
- 4 How does the grain direction in sheet metal affect the design of:
(a) Bending dies.
(b) Blanking dies.
- 5 Describe electro chemical machining process and discuss its employability for different materials.
- 6 (a) Discuss the alloying elements which improve strength of pure titanium.
(b) Discuss the applications of titanium and its alloys.
- 7 Write about various types of riveted joints with the help of neat sketches that are used in the aircraft assembly.
- 8 (a) Explain in brief about the acoustic holography with a suitable example.
(b) Explain ultrasonic testing procedure with a suitable example.
