

III B.Tech II Semester Supplementary Examinations, April/May 2005
AIRCRAFT PRODUCTION TECHNIQUES
(Aeronautical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is interchangeability? What are the main points to be taken for manufacturing the aircraft components.
2. What are the conventional machining processes? Describe EDM, ECM and CIM.
3. (a) Describe CAD, CAM and their integration in detail.
(b) What is a sand witch construction? Explain its advantages.
4. (a) Explain the various steps to ensure the quality of the product.
(b) Describe the various processes to prevent the corrosion of the aircraft parts.
5. What are the emerging trends in quality assurance. Explain ISO 9000 series.
6. Describe the various jigs and other equipments used in the assembly of aircraft.
7. What are the various techniques used in the automation of a factory. Describe CAD, CAM, CIM and CAPP.
8. What are the composite materials? What are their unique advantages in aircraft industry. Describe the different types of composites.
