

IV B.Tech I Semester Supplementary Examinations, November 2005
AVIONICS
(Aeronautical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are the different avionics sub systems used in aircrafts? Describe and explain one of the sub system used. [16]
2. Discuss the architecture of digital avionics with the help of block diagram, explaining each component. [16]
3. (a) What is a digital computer. What is its role in aeronautics and avionics?
(b) Describe the various types of memories associated with the digital computer. [8+8]
4. (a) Draw a neat sketch of the civil cockpit showing all the navigational instruments.
(b) Describe the principal and working of LCD, EL and plasma panel. [16]
5. Draw block diagrams of the utility systems of airplanes and explain their working. [16]
6. Write short notes on the following [4x4=16]
 - (a) Certification
 - (b) ILS
 - (c) Touch screen
 - (d) LORAN
7. Describe Inertial Navigation, Dead Reckoning Navigation, hyperbolic navigation systems. [16]
8. Describe the principal, construction and working of all the navigation instruments with neat sketches. [16]
