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Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech.(ANE) (Sem.-6)**  
**ELEMENTS OF AVIONICS**  
Subject Code : ANE-325  
M.Code : 60534

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

**SECTION-A****1. Explain the following :**

- a) What is a digital data bus? Give one example.
- b) What is the main air data sensing equipment?
- c) What are the components of Inertial navigation?
- d) What is Doppler radar?
- e) What is the use of HUD?
- f) What is the role of air data comp?
- g) Explain TCAS briefly.
- h) What is the working principal of a radar altimeter?
- i) Write a note on IFF.
- j) What is the function of ILS?





**SECTION-B**

2. What do you mean by auto pilot? What is its function?
3. Explain the principle and working of DME.
4. Describe the functioning of microwave landing system.
5. Write a note on ISIS.
6. What are the different avionic instruments and sensors on aircraft?

**SECTION-C**

7. Describe the data buses and architecture of an avionics system.
8. a) What are the different display systems used in aircrafts?  
b) Describe the use of accelerometers.
9. Discuss the working of TACAN, ATC transponder and helmet mounted display.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**

