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B.Tech.(ANE) (Sem.-6)
ELEMENTS OF AVIONICS

Subject Code: ANE-325 M.Code: 60534

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 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

Q1. Attempt the following:

- (a) Define Directional Gyros.
- (b) What is the function of weather radar?
- (c) How environment affects the avionics equipment?
- (d) Define Bus and its function.
- (e) Explain the term 'IFF' and its importance.
- (f) What do you mean by communication systems? List various communication systems.
- (g) Explain marker beacons and their importance.
- (h) What do you understand by Doppler radar?
- (i) Define LRU.
- (i) How air data is sensed?

(5)



(b) ARINC 629

SECTION-B

Q2. Distinguish between earlier and modern (glass) flight deck. Q3. Explain the role of Air Data Computer in air data sensing. Q4. Distinguish between 'HUD' and 'HDD'. O5. Write a short note on 'RADALT'. Explain the working principal of 'Helmet Mounted Display'. Q6. **SECTION-C** Q7. Write notes on the following navigation systems: (a) TCAS (5) (b) VORTAC (5) Explain the working principal of 'ILS' and 'MLS'. What are the merits and demerits of and 's series of the series of O8. 'ILS' over 'MLS'? (4,3,3)Write notes on the following: Q9. (a) CRT (5)

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.

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