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

Paper ID : [A1231]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

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

SECTION-A

Man First Sanker com Q1 **Explain the following:**

- a) Accelerometer
- b) Weather radar
- c) Astronavigation
- d) Digital data buses
- e) IFF
- f) Air data sensing
- g) Marker beacons
- h) Display systems
- i) LRU
- j) Navigation



SECTION-B

- Q2 Distinguish between 'HUD' and 'HDD'.
- Write a short note on 'MHRS'. Q3
- Q4 Distinguish between earlier and modern (glass) flight deck.
- Q5 Explain the working of satellite communication.
- Explain the working principle of 'RADALT'. Q6

SECTION-C

Write notes on the following navigation systems: (2×5)

- a) TCAS
- b) VORTAC
- ad 'N Explain the working principle of 'ILS' and 'MLS'. What are the merits and demerits of O8 'ILS' over 'MLS'? (4,3,3)
- Write notes on the following: Q9 (2×5)
 - a) ADF
 - b) ARINC 629

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