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B.Tech.(Aerospace Engg.) (2012 Batch) (Sem.-7,8)

AVIONICS

Subject Code: ASPE-404 M.Code: 72567

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS 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

1. Answer briefly:

- a) What do you understand by 'Touch screen'?
- b) Define redundancy and explain its importance.
- c) What do you mean by control laws? Categorize control laws.
- d) How environment affects the avionics equipments?
- e) Define bus bar and explain its function.
- f) What do you mean by air data and how is it displayed?
- g) What do you understand by 'astronavigation'?
- h) Explain the term 'IFF' and its importance.
- i) What do you mean by navigation? List various navigation instruments.
- j) Explain briefly, how 'LED' is used for display.



SECTION-B

- 2. Distinguish between glass cockpit and electro-mechanical cockpit.
- 3. Explain the importance of digital systems in aviation.
- 4. Explain the working principal of 'VOR'.
- 5. Write a short note on 'Circuit Controlling devices'.
- 6. Explain the working principle of 'HUD'.

SECTION-C

- 7. What do you mean by avionics subsystems? Explain the working principles and function of various components of typical avionics subsystems.
- 8. Explain the following with respect to Inertial Navigation system:
- Compass swing

 Write notes on the following:

 a) CRT

 b) Plasma Panel 9.

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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