

Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Tech.(Aerospace Engg.) (2012 Onwards) (Sem.-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
- 2. 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

1. **Answer briefly:**

- (a) Split bus bar system
- N.F.itstRanker.com (b) Special purpose cables
- (c) Compass swing
- (d) Cooper Harper scale
- (e) Plasma panel
- (f) Electronic warfare
- (g) Inertial navigation unit
- (h) Transmitter-receiver
- (i) DVI
- (i) ILS



SECTION-B

- 2. Distinguish between gyroscopic and inertial platform. Explain structure of stable platform.
- 3. Explain the working principle of 'MIL-STD 1553B'.
- 4. Explain the need for avionics in aviation.
- 5. Explain the common modes of failure of electronic flight control system.
- 6. Explain the working principle of 'LED'.

SECTION-C

7.	Explain the principle of digital systems. Discuss the role of digital systems in aviation	on. 4,6
8.	Write notes on the following:	
	(a) Civil cockpit and Military cockpit	5
	(a) Civil cockpit and Military cockpit(b) Flight control systems	5
9.	Explain the following:	
	(a) Typical avionics subsystems	4
	(b) HOTAS	3
	(c) MFDS	3

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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