

Eighth Semester B.E. Degree Examination, June/July 2019 **Avionics**

Max. Marks:100 Time: 3 hrs.

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

		PART – A	
1	Des	scribe about the Bus Bar system and Split Bus Bar system, with neat diagrams.	(20 Marks)
2	a.	Write short note on Stable Platform.	(03 Marks)
	b.	Explain about the Inertial Navigation System.	(10 Marks)
	C.	Describe about the Compass Swing and its importance.	(07 Marks)
3	а	With suitable diagram, explain about the Pitch and Roll rate command FBW syst	em.
			(14 Marks)
	b.	Write notes on: i) Cooper – Harper scale ii) Common mode failures.	(06 Marks)
4	а	Give detail notes on Annunciation.	(06 Marks)
•	b.		(14 Marks)
	U.	Discuss about the display of all data, with sultable diagrams.	(14111111111111111111111111111111111111
		PART – B	
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5	a.	Discuss about the avionics subsystems, with neat block diagram.	(10 Marks)
	b.	Give explanation about the aircraft communication system and its components.	(10 Marks)
6	a.	Explain about the 8085 Microprocessor architecture and its working principle.	(14 Marks)
	b.	Describe about the types of memories.	(06 Marks)
7	a.	Compare and contrast the display technologies like CRT, LED, LCD, EL	and plasma
			(10 Moules)

panel. (10 Marks) b. Explain the basic principle of HUD. (05 Marks)

Discuss the features of DVI. (05 Marks)

Describe about the avionics equipment fit. (06 Marks) 8

Explain the three components of Electronic Warfare. (04 Marks)

Describe in detail towards the MIL – STD – 1553B data bus with suitable diagrams.

(10 Marks)