15AE81

Eighth Semester B.E. Degree Examination, November 2020 **Avionics**

Ti	me: 3	B hrs. Max. M	arks: 80
		Note: Answer any FIVE full questions irrespective of modules.	
		Module-1	(00 M 1)
1	a.	With a schematic diagram, explain split bus bar system.	(08 Marks)
	b.	Explain briefly about the special purpose cables used in aircraft electrical system.	(08 Marks)
2	2	Describe the construction and operation of micro switch.	(08 Marks)
2	a. b.	Explain the importance of avionic system in civil and military aircraft.	(08 Marks)
	υ.	Explain the importance of a violine system in civil and immedy anothers	(00 1120110)
		Module-2	
3	a.	Explain the principle of inertial navigation system with suitable diagram.	(08 Marks)
	b.	Explain in detail about structure of stable platform.	(08 Marks)
4	a.	Explain about the pitch rate command system with neat diagram.	(08 Marks)
	b.	Define common modes of system failure with example.	(08 Marks)
		Module-3	(TD)) (
5	a.	List the basic six flight instrument with a neat schematic, explain about basic '	
		flight instrument grouping.	(08 Marks)
	b.	Write short note on failure annunciation.	(08 Marks)
net,			
		Explain the different ratio frequency band on which aircraft communication	are usually
6	a.	carried out.	(08 Marks)
	b.	Explain these antenna in detail: i) Di pole ii) Marconi.	(08 Marks)
	υ.	Explain these alterna in detail. If BI pole in Marconi.	(00 11201115)
		Module-4	
7	a.	Explain the principle of HUD with a neat sketch.	(08 Marks)
		Write short notes on: i) LCD ii) CRT iii) Plasma panel	(08 Marks)
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8	a.	Write short notes on: i) HOTAS ii) Direct Voice Input iii) Multi functiona	
		With the State of	(08 Marks)
	b.	Write short notes on: i) RAM ii) PROM iii) EPROM	(08 Marks)
		Module-5	
0	-	Give brief discussion about Avionics equipment fit.	(08 Marks)
9	a.	Explain MILSTD1553 bus system with neat diagram.	(08 Marks)
	b.	-	(oo man no)

Explain the working principle of RADAR. Explain navigation system. 10

(08 Marks)

(08 Marks)

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.