

Model Question Paper

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Sixth Semester B.E. Degree Examination Avionics Systems

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module – 1			Marks	CO	RBTL
Q.1	(a)	Explain briefly about bus bar and split bus bar systems with neat sketch.	20	1	2
OR					
Q.2	(a)	Describe the circuit controlling devices at least any two with neat sketches	10	1	2
	(b)	Explain the need for avionics in civil and military aircraft.	10	1	2
Module – 2					
Q.3	(a)	Explain the working principle of stable platform INS and their advantages and disadvantages with diagram.	10	2	2
	(b)	Explain the importance of compass swing.	10	2	2
OR					
Q.4	(a)	Describe the basic concept and features of FBW flight control system with diagram.	10	1	2
	(b)	Explain about the roll rate command control response system with neat sketch.	10	1	2
Module – 3					
Q.5	(a)	Explain the sub systems of display units with neat sketch.	10	2	2
	(b)	Describe briefly about ADI and ESI with diagrams.	10	2	2

OR			Marks	CO	RBTL
Q.6	(a)	Explain briefly about the various layers of avionics sub systems with neat sketch.	20	2	2
Module – 4					
Q.7	(a)	Explain the architecture of 8085 microprocessor with neat sketch.	10	3	2
	(b)	Describe the classifications of semiconductor memories.	10	3	2
OR					
Q.8	(a)	Compare the display technologies of CRT, LED, LCD, EL and plasma panels.	10	2	2
	(b)	Explain Multi-function colours display and head up display.	10	2	2
Module – 5					
Q.9	(a)	Explain briefly the working principle of Instrument landing system with neat sketches.	20	2	2
OR					
Q.10	(a)	Describe the first and second generation of avionics system architectures with diagram.	10	3	2
	(b)	Define protocol. Explain the word formats of MIL-STD-1553B data bus.	10	1	2