

CBCS SCHEME

USN					18AE821
		Eighth Semester B.E. Deg	ree Examina	tion, July/August 20	22
			Avionics		
Tin	20: 3	hrs.	Page 9	Max. N	Marks: 100
1 111		ote: Answer any FIVE full question	es choosing ONE		
	INO	ste: Answer any FIVE juit question	is, choosing ONE	Juli question from each m	
			Module-1		
1	a. b.	With a schematic diagram, explain Explain briefly about the special pu	spit bus bar syste irpose cable used	m. in aircraft electrical system.	(10 Marks) (10 Marks)
			OR		
2	a. b.	Explain the importance of avionics With relevant sketch, explain the fiii) Rotary switches iv) Toggle sw	system in civil ar following: i) Mo	nd military aircrafts. ercury switches ii) Proxin	(08 Marks) nity switches (12 Marks)
			Module-2		
3	a.	Explain the pitch rate command sy	stem with relevan	it figure.	(10 Marks)
	b.	With a neat sketch, explain briefly	about the fly by v	vire system.	(10 Marks)
			OD		
4		Explain the principle of inertial na	OR	yith suitable diagram.	(10 Marks)
4	a. b.	Explain in detail about structure of	f stable platform.) and surface of the	(10 Marks)
			Module-3		
5	a.	List the basic sine flight instrumen	nt with a neat sket	ch. Explain about basic 'T'	type of flight
		instrument grouping.			(15 Marks) (05 Marks)
	b.	Write short note on failure annunc	iation.		(03 Marks)
			OR		
6	a	Explain the different radio frequen	ncy band on which	ch aircraft communication u	sually carried
		out.			(10 Marks)
	b.	Write short notes on the following	g: i) Transmitter	ii) Antenna iii) Receiver.	(10 Marks)
			Module-4		
7	0	Explain the principle of HUD with		list out its limitation.	(10 Marks)
7	a. b.	1 1 1 1 -14	tch explain briefly	and mention its usage.	(10 Marks)
			OR		
8		Write short note on the following	: i) HOTAS ii) C	CRT iii) Plasma Panel iv) Ra	m. (20 Marks)
			Module-5		
9	a.	Give brief discussion about Avior			(10 Marks)
,	b.	- 1 · · · · · · · · · · · · · · · · · ·	it navigation syste	em.	(10 Marks)
			OR		
			2117		

a. Explain MIL – STD 1553B bus system with neat diagram.
b. With relevant sketch, explain about electronic warfare system.
(10 Marks)
(10 Marks)

* * * * *