(05 Marks)

Eighth Semester B.E. Degree Examination, July/August 2021 **Avionics** BANGALOR

Max. Marks: 100 Time: 3 hrs

Tin	ne: 3	hrs.	lax. Marks. 100
		Note: Answer any FIVE full questions.	
1	a.	State the function of a bus-tie breaker and draw the type of bus bar arrang would be applied.	ement to which it (08 Marks)
	b.	Describe the construction and operation of a micro switch.	(08 Marks)
	C.	Write the truth table for the circuit shown in Fig. Q1(c).	
		4	
		B Do	
		Fig.Q1(c)	(04 Marks)
2	a.	What does an INS consist of? Mention their function.	(05 Marks)
_	b.	How does Gimbaled INS work?	(07 Marks)
	C.	Describe the advantages and disadvantages of INS.	(08 Marks)
			(0.7.7. Tu)
3	a.	Explain the figure that illustrates the key features of FBW.	(07 Marks)
	b.	Explain the operation of failure detection algorithm for quaduplex sensors	(08 Marks)
	C.	Define common mode failures with examples.	(05 Marks)
4	a.	Describe types of failure warning annunciation.	(06 Marks)
•	b.	List the parameters of Air data display.	(06 Marks)
	c.	Draw basic instrument grouping of flight instruments.	(04 Marks)
	d.	Name some of the aircrafts instruments to which digital counter is applied	(04 Marks)
		ti a la l	vication carried out
5	a.	Explain the different radio frequency band on which the aircraft commun	(10 Marks)
	h	With neat diagram explain aircraft communication system.	(10 Marks)
	b.	With heat diagram explain anotait communication by storia	*
(With a neat sketch, explain Microprocessor architecture in detail.	(08 Marks)
6	a. h	What is Aliasing?	(04 Marks)

			A STATE OF THE STA		
-	a With a neat sketch	With a neat sketch, explain Microprocessor architecture in detail.	in detail.	(08 Marks	
0	a. With a fieat sketch,	explain wherep			(04 Marks
	b. What is Aliasing?				(U4 IVIAI KS
	U. What is miasing:		The second secon		

(08 Marks) c. Explain the classification of Memory.

7	a.	Write short notes on:
		i) HOTAS

	ii) Multi function keyboard (MFK)	(05 Marks)
b.	Write short notes on: i) Touch screens ii) Direct Voice Input (DVI)	(05 Marks) (05 Marks)
	G: Lief description about Avionics equipment fit	(10 Marks)

Give a brief description about Avionics equipment fit.

Write short notes on:

(05 Marks) i) Electronic Warfare (EW) (05 Marks) ii) Navigation system