Eighth Semester B.E. Degree Examination, Jan./Feb. 2021 **Avionics**

Time: 3 hrs. Max. Marks:100

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

ice.			PART – A	
g blank pages. = 50, will be treated as malpractice.	1	a.	Define the 3 groups which usually categorize the importance of consumers service	e.
nalţ				(06 Marks)
as r		b.	Describe briefly the function of indicating lights on the control panel.	(05 Marks)
ited		C.	List and explain types of electrical diagrams, produced for aircraft.	(09 Marks)
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ages I be	_			
k pë Wil	2	a.	Explain the structure of stable platform.	(08 Marks)
olan 50,		b.	Describe inertial alignment.	(06 Marks)
ng l = 8-			Explain the importance of compass swing.	(06 Marks)
taini 42+				
eg,	2	0	With neat diagram explain quaduplex actuation system and lane processing task.	(09 Marks)
the	3	a. b.	Explain the operation of failure detection algorithm.	(08 Marks) (12 Marks)
on wri		0.	Explain the operation of failure detection argorithm.	(12 Marks)
lines				
oss uati	4	a.	With neat diagram explain PFD.	(10 Marks)
Il cro		b.	Describe the function of airspeed tape with neat diagram.	(06 Marks)
ons od/c		c.	Describe the difference between NORTH and TRUE NORTH.	(04 Marks)
On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, $42+8=50$, will be				
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ly d eval			PART – B	
sori l to				
pul	5	a.	List the frequencies, band and function used for aviation communication and navi	
con 1, ap		h	Explain T ^x and R ^x with neat labeled diagram.	(12 Marks)
ers,		b.	Explain 1 and R with heat labeled diagram.	(08 Marks)
ıfica				
ur aı lent	6	a.	Define bit, byte, word and instruction.	(04 Marks)
yol of id	O.	b.	Explain the architecture of μp .	(10 Marks)
eting ing		c.	Explain cache memory and main memory.	(06 Marks)
nple			Explain duction and man accept.	(,
y re				
On	7	a.	With neat diagram explain the difference between civil cockpit and military cock	pit.
.1.				(10 Marks)
lote		b.	Describe the function of MFD, HUD, MFK and HOTAS.	(10 Marks)
nt N			And the second s	
Important Note : 1. 2.				(0(N/ 1)
dwJ	8	a.	Describe information transfer format for RT to RT.	(06 Marks)
, a		b.	Explain word formats of MIL – STD 1553B.	(08 Marks)
		c.	Explain data encoding of MIL – STD 1553B.	(06 Marks)