Q. P. Code: 16583

(3 hours)

Total Marks: 100

Note: (1)	Question 1	is compu	lsory
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- (2) Answer any 4 out of the remaining questions(3) Diagrams to be drawn whenever required

d.) Parabolic reflector antenna

1.(a). State and prove Keplers laws(b). Explain the principle of working of a MTI radar.(c) Differentiate between resonant and non-resonant antennas.(d)) Explain Blind speed in Radar System.	(20)
2.(a).Describe telemetry and tracking section in satellite receivers(b). Explain the principle of working of a monochrome receiver.	(10) (10)
3(a) Describe the various stages of uplink and downlink model of a satellite system.(b) Explain composite video signal with neat diagram.	(10) (10)
4 (a). Explain the working of yagi uda antenna along with radiation pattern.(b) Explain principle of PAL receiver	(10) (10)
5.(a) Derive the relation for maximum Radar Range. Explain the Factors affecting it.	(10)
(b). Describe LEO, MEO and GEO satellites.	(10)
6.(a). Define the following:Apogee, Perigee, Radiation pattern, Beam width of antenna, Radiation resistance(b) Explain working of any one camera tube in TV.	(10) (10)
 7. Write short notes on: a.) Interlaced Scanning b.) Satellite Launching c.) Radar scanning 	(20)

T3216 / T0767 MICROPROCESSOR AND MICROCONTROLLER II

[Time: 3 Hours]

22/5/247

[Marks: 100]

T.E.-SEM: II (Old)-ETRX

Q.1

Q.2

Q.3

Q.4

Q.5

Q.P. Code :16378

		F	Please check whether you have got the right question paper.	- CO (C
	N.B:		Question No. ONE is compulsory.	200
	IV.D.		Out of remaining questions, attempt any FOUR questions.	- 8
				5
			In all FIVE questions to be attempted.	500
			All questions carry equal marks.	5000
			Answer to each new question to be started on a fresh page.	
			Figures in brackets on the right hand side indicate full marks. Assume Suitable data if necessary.	\$ P
			ificance of HOLD, RESET and READY IN 8086.	05
			us Register of PIC controller	05
c)	Explain the	app	lication of PIC 18F timer.	05
d)	List the diff	eren	ices between 8086 and 8088 processors.	05
			a and Program Memory Map of PIC Controller.	10
b)	Explain the	808	6-8087 coprocessor configuration.	10
			note on interrupt structure of 8086.	10
b)	Write an 80 segment to		rogram to transfer a block of 10 bytes using string instructions from data a segment.	10
a)			18F programming model. What is the difference between w Register and	10
	Data Regist	The Call Control		
b)	Explain the	diffe	erent modes of operation in 8255.	10
			in the 8086 maximum mode of operation.	10
			owing 8086 instructions	10
100	i)CMP ii) M	OVSE	3 (iii) LOOPNE iv) STD/CLD	
			n the interfacing of 8259 and 8086 in cascaded mode.	10
b)	Explain the	addı	ressing modes of PICI8F.	10
			es on any two	
		The second second	8237 DMA Controller	10
6	b) OCW	C. C. C.	246 D. C. A. 120 D. C. 120 D. C. A. 120 D. C. 120 D. C. A. 120 D. C. A	10
6	c) Asser	nblei	Directives of 8086	10