QP Code: RM17001115	Reg.						AR 17
	No						



(iii)

Earth station transmitter

GIET MAIN CAMPUS AUTONOMOUS GUNUPUR – 765022

B. Tech Degree Examinations, May – 2021 (Eighth Semester)

BEEPE8021 – SATELLITE COMMUNICATION (E.E.E)

Time: 2 Hrs Maximum: 50 Marks

The figures in the right hand margin indicate marks.

]	= 10 Marks)					
Q.1.	Answer A	LL questions			[CO#]	[PO#]
a.	To impler	ment the frequency planning, the	ne world	d is divided into	[CO1]	PO 1
	(i)	4 Regions	(ii)	1 Region		
	(iii)	2 Regions	(iv)	3 Regions		
b.	Ascending	g node is			[CO1]	PO 1
	(i)	The point where the orbit crosses the equatorial plane going from south to north	(ii)	The point longest from earth		
	(iii)	The point closest approach to earth	(iv)	The point nearest to the earth		
c.	Mention t	ns	[CO1]	PO 1		
	(i)	Broadcasting satellite services	(ii)	Signal transmission		
	(iii)	Information transmission	(iv)	Data transmission		
d.	Antenna c	an be made more directional b	y		[CO2]	PO 1
	(i)	Increasing its diameter	(ii)	Increasing frequency of transmission		
	(iii)	Both a and b	(iv)	Increasing the size of the antenna		
e.	MATV st	ands for			[CO2]	PO 1
	(i)	Maximum angular TV	(ii)	Multi amplitude TV		
	(iii)	Master antenna TV	(iv)	Minimum access TV		
f.						
	(i)	Reduces velocity	(ii)	Reflects the signals		
		<u> </u>		Bit inversion occurs		
g.		the following makes the existe		• •	[CO3]	PO 1
	(i)	Rotation of the earth	(ii)	Ultraviolet radiation from earth		
	(iii)	Solar flares	(iv)	Radiation from distance stars		
h.	Burst code				[CO3]	PO 1
	(i)	Binary word	(ii)	Digital word		
	(iii)	Octal word	(iv)	Hexa decimal word	F.G.C. 1-	DO 1
i.		omponent of uplink section of			[CO4]	PO 1
	(i)	Transformer	(ii)	Transistor		

(iv)

Power station transmitter

j.	The total	noise of a satellite earth st	[CO4] PO 1							
	(i)	Sky noise	(ii)	Internal noise						
	(iii)	External noise	(iv)	System noise						
PART – B: (Short Answer Questions)						$(2 \times 5 = 10 \text{ Marks})$				
<u>Q.2</u>	2. Answer 2	ALL questions			[C	O#]	[PO#]			
a.	a. Enumerate some of the satellite services.						PO 1			
b.	Define:	Inclination.	[PO 1						
c.	c. State the methods of multiple access techniques.						[CO2] PO 1			
d.	What are	e the link parameters that are	[CO3] PO 1							
e.	Write the	e role of low noise amplifier.	[CO4] PO 1							
PART – C: (Long Answer Questions)						$(6 \times 5 = 30 \text{ Marks})$				
Answ	er ANY F	IVE questions			Marks	[CO#]	[PO#]			
3.	Discuss	in detail about satellite orb	its.		(6)	[CO1]	PO 1			
4.	Explain	about telemetry, tracking a	(6)	[CO1]	PO 1					
5.	Describe	about mobile satellite ser	(6)	[CO2]	PO 1					
6.	Explain	about DBS in detail.			(6)	[CO2]	PO 1			
7.	Discuss	in detail about satellite ant	ennas.		(6)	[CO3]	PO 1			
8.		e in detail about the phen tmosphere.	omena caus	es lead signal loss on	(6)	[CO3]	PO 1			
9.	Draw th block in	e block diagram of earth detail.	n station an	d explain about each	(6)	[CO4]	PO 1			
10.	Describe	in detail about antennas in	n earth statio	on.	(6)	[CO4]	PO 1			

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