(b) Encoding digital data

(d) 4G mobile communication

Question Paper Code: 56401

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Sixth Semester

Electronics and Communication Engineering

15UEC601-WIRELESS COMMNICAION SYSTEMS

(Regulation 2015)

	(Regulatio	11 2013)			
Dur	ation: 1.15 hrs	Maximum: 30 Marks			
	PART A - (6 x 1	l = 6 Marks)			
	(Answer any six of the	following questions)		
1.	Radio capacity may be increased in cellular concept by			CO1-R	
	(a) Increase in radio spectrum				
	(b) decreasing radio spectrum				
	(c) Increasing the number of base stations & reusing the channels				
	(d) Decreasing the number of base stations				
2.	The FDMA channel carriesphone circuit at a time		time	CO1- R	
	(a) 10 (b) 2	(c) 1	(d) Several		
3.	Mobile Assisted Handoff (MAHO) provides	<u>. </u>		CO2-R	
	(a) Faster handoffs	(b) frequent hando	offs		
	(c) No monitor of signal strength by MSC	(d) All the above.			
4.	A propagation model that estimates radio coverage of a transmitter is called				
	(a) Large scale propagation model	(b) Small scale propagation model			
	(c) Fading model	(d) Okumura mode	el		
5.	Identify the incorrect option related to OFD	M.		CO3-R	

(a) Multi carrier method

(c) Short band digital communication

6.	PSK system uses a phase shift of					CO3- R	
	(a) π	(b) $\pi/2$	(c) $\pi/4$	(d) 2	2π		
7.	Which of the following is NOT a diversity Scheme?					CO4-R	
	(a) Time	(b) Frequency	(c) Space	(d) D	oppler		
8.	Diversity decisions are made by CO4-						
	(a) Receiver	(b) Transmitter	(c) Adaptive algorithm	ns	(d) Cha	nnel	
9.	A system is any collection of elements (or subsystems) that operate interdependently and use unguided electromagnetic-wave propagation to perform some specified function(s).						
	(a) wireless	(b) Cellular	(c) Satellite	(d) M	Iote G		
10.	What is the term used by ITU for a set of global standards of 3G systems?					CO5- R	
	(a) IMT2000	(b) GSM	(c) CSMA	(d) E	DGE		
		PART - B (3)	3 x 8= 24 Marks)				
		(Answer any three of	the following questio	ns)			
11.	Analyze the different methods to improve coverage and channel capacity in cellular systems.					(8)	
12.	Using neat ray diagram, explain the Link Budget design for wireless channel.					pp (8)	
13.	Describe about Transceiver Implementation.					(8)	
14.	Explain the concept of Adaptive equalization.Bring out the salient features.					(8)	
15.	Summarize the types	of 802.11 wireless sta	andards.		CO5-U	(8)	