Reg. No. :

Question Paper Code: 59B14

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Elective

Biomedical Engineering

15UBM914- TELEMEDICINE

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1.	is the use of medical information exchanged from one site to another via electronic communications to improve patients'					
	health status.		(c) Video conferencing			
2.	Telemedicine is the use another via	redicine is the use of medical information exchange from one site to er via				
	(a) Print communication		(b) Electronic commu	nication		
	(c) Verbal communicati	on	(d) Written communio	cation		
3.	configuration provides a data B channel & 64					
	(a) BRI	(b) MRI	(c) ISDN	(d) ISDN C		
4.	which allows instant transmission to text & graphics.					
	(a) GST	(b) Internet	(c) REDIF	(d) Network		
5.	H.324 is an ITU-T record	mmendation fo	or	CO3- R		
	(a) Voice	(b) Video	(c) Data Transmiss	ion (d) All the above		
6.	H7 standards focus on t	he application	layer, which is	CO3- R		
	(a) "layer 7"	(b) "layer 7	(c) "layer 8 "	(d) "layer 9 "		
7.	Teleradiology is the tran	nsmission of ra	diological patient images, s	uch as CO4- R		
	(a) X-rays	(b) CTs	(c) MRIs	(d) All the above		

8.	is the study of the neural mechanisms involved in emotion					CO4- R		
9.		Neuroscience ctronic Health Rec	(b) Nervous system ord includes		n	(d) All th	e above CO5- R	
	(a) l	Demographics	(b) Medical history	(c) Allergies	(d)	All of the	above	
10.	Legal issue is also called as?						CO5- R	
	(a)	Interpretation	(b) Court's decision	(c) Issue of law	(d)	Issues		
$PART - B (5 \times 2 = 10 \text{ Marks})$								
11.	Explain public key and secret key.						CO1- U	
12.	Define PSTN.						CO2- R	
13.	Define Data security.						CO3- R	
14.	How do you mean by image acquisition system.					CO4- U		
15.	What	at is mean by Intel	lectual Property Right	ts?			CO5- R	
			PART – C (5	5 x 16= 80 Marks)				
16.	(a)	Explain the origi	n and development of	telemedicine.		CO1- U	(16)	
			Or					
	(b)	Brief notes of Hi	story and evolution of	f telemedicine.		CO1- U	(16)	
17.	(a)	Discuss in deta telemedicine.	uil about the modu	lation techniques used	in	CO2- U	(16)	
	Or							
	(b)	-	il about the variou scope in telemedicin	s wireless communicati e.	on	CO2- U	(16)	
18.	(a)	Explain in detail and HL7.	the standards to be fo	llowed while using DICO	М	CO3- U	(16)	
Or								
	(b)	Define Cryptogra	phy . Explain in detai	l about Cryptography .		CO3- U	(16)	

19.	(a)	Discuss in detail about Robotics surgery and its application.	CO4- U	(16)
		Or		
	(b)	Give a brief account of Telecardiology & its application.	CO4- U	(16)
20.	(a)	Analyze the role of Internet in Telemedicine & explain the Ethical & legal aspects of internet.	CO5- Ana	(16)

Or

(b) Categorize the causes of Telemedical malpractice in consent CO5-Ana (16) treatment & jurisdictional issues.

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