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IXCg.	110.	•

Question Paper Code: 59B20

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

Elective

Biomedical Engineering

15UBM920 – Clinical Engineering

		(Regula	ation 2015)			
Dur	ation: Three hours			Maximum	: 100 Marks	
		Answer A	LL Questions			
		PART A - (10	x 1 = 10 Marks			
1.	The core functions of	a clinical engineerir	ng department can be		CO1 R	
	(a) Technology manag	gement	(b) Risk manage	(b) Risk management		
	(c) Both A and B		(d) None of the	above		
2.	In 1924 Berger invent	ed			CO1- R	
	(a) EEG	(b) ECG	(c) EMG	(d) I	EOG	
3.	Strategic technology partial spending plan.		year long-r	ange	CO2- R	
	(a) 3 to 5	(b) 4 to 6	(c) 3 to 6	(d) ²	1 to 5	
4.	should provand the "extras".	vide a detailed descr	iption of the "must h	aves"	CO2- R	
	(a) RR	(b) RED	(c) RFP	(d) D	ОСЕ	
5.	The goal of health optimize	care technology	management (HTM	1) is to	CO3- R	
	(a) Computers	(b) Acquisition and	d utilization (c)	WiFi (d) Tra	ansportation	
6.	EHTP aims is to provi	ide			CO3- R	
	(a) Promotive	(b) Preventive	(c) Curative Hea	lth Car (d) A	Il the above	

7.	Identify timetable to complete monthly IPM services comes under the								CO4- R	
	(a) (Goal	(b) Reliabi	lity	(c) Perf	formance	(d) In	nternal assess	sment	
8.		important	to be able to q	uickly com	pile the	relevant d	ata.	(CO4- R	
	(a) I	Determine thresh	old		(b) Eva	luate indi	cator dat	a		
	(c) I	Identify trends			(d) Mo	dify indicate	ator			
9.		are calling	eation err	or.		(CO5- R			
	(a) (СРОЕ	(b) ADT		(c) CIS		(d) No	ne of the abo	ove	
10.	Pati	ent safety is imp	acted by each	of these ho	spital do	mains.		(CO5- R	
	(a) I	ICU	(b) ER		(c) OR		(d) All	All of the above		
			PART	$T - B (5 \times 2)$	2= 10 Ma	arks)				
11.	Wha	at are the roles of	f clinical engi	neering?				CO1	- R	
12.	Def	ine the stages of	technology lif	e cycle.				CO2- Ana		
13.	. Short notes on promotive, preventive and curative health care.							CO3- R		
14.	Short notes on IPM.							CO4	- U	
15.	Write short notes on CPOE.							CO5	- R	
			PA	RT - C (5)	x 16= 80	Marks)				
16.	(a)	Explain briefly with neat diagr		ctional stat	tus of cli	nical engi	ineering	CO1- U	(16)	
				Or						
	(b)	Discuss the Me	dical Technol	ogy and Pa	tient Saf	ety metho	ds.	CO1- U	(16)	
17.	(a)	Analyze techn strategies.	nology assess	sment and	its au	idit and	budget	CO2- Ana	(16)	
				Or						
	(b)	Explain briefly	about the dev	ice evaluat	ion and r	isk reduct	ion.	CO2- Ana	(16)	
18.	(a)	Elaborate the implementation	techniques	involved	in log	gical fra	mework	CO3- U	(16)	
				Or						
	(b)	Write a brief no	ote on FHTP i	ustification				CO3- II	(16)	

19.	(a)	Analyze case study to enhance IPM services and its action plan.	CO4- Ana	(16)
		Or		
	(b)	Write brief notes on case study to enhance IPM services.	CO4- Ana	(16)
20.	(a)	Explain in health care failure mode (HFMEA) and effect. Or	CO5- U	(16)
	(b)	Discuss in detail about health care failure mode and effect	CO5- U	(16)