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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION (TAKE HOME) SEMESTER II SESSION 2020/2021

COURSE NAME	:	MEDICAL INSTRUMENTATION
COURSE CODE	:	BEU40503
PROGRAMME CODE	•	BEJ
EXAMINATION DATE	:	JULY 2021
DURATION	÷	3 HOURS
INSTRUCTION	:	ANSWERS ALL QUESTIONS OPEN BOOK EXAMINATION

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

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CC	NFID	ENTIAL	BEU 40503	
Q1	(a)	Identify any FIVE (5) medical i	nstruments. (5 mar	·ks)
	(b)	Discuss FIVE (5) application of	f medical instruments.	
			(10 mar	ks)
	(c)	Describe cellular engineering w		1
			(10 mar	KS)
Q2	(a)	Explain the principle of transdu		
			(2 mar	ks)
	(b)	List down types of transducer at	nd discuss. (13 mar	·ks)
	(c)	Infer the venous air embolism p using its schematic diagram.	ossible areas in hemodialysis circuit by pointing	
		using its schematic diagram.	(10 mar	ks)
Q3	Cate	rorize the invasive and non-invasiv	ve measurement of blood pressure.	
25	Cuto		(15 mar	·ks)
Q4			entation in designing using blood circulatory	
	diag	am.	(15 mar	ks)
Q5	Expl	ain the procedure to measure the p	ulse rate.	
			(9 mar	ks)
Q6	(a)	List various blood flow and blo	od volume measurement techniques.	
			(5 mar	ks)
	(b)	Categorize the parameters invol system and dynamic system.	lved in the rate of respiration calculation in a static	
			(6 mar	rks)
		-END	OF QUESTIONS -	

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