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## UNIVERSITI TUN HUSSEIN ONN MALAYSIA (TAKE HOME) FINAL EXAMINATION SEMESTER II SESSION 2019/2020

COURSE NAME	:	BIOMEDICAL ENGINEERING AND APPLICATIONS
COURSE CODE	:	BEU 41503
PROGRAMME CODE	:	BEJ
EXAMINATION DATE	•	JULY 2020
DURATION	:	3 HOURS
INSTRUCTION	:	ANSWER ALL QUESTIONS OPEN BOOK EXAMINATION

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

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Q1	<b>(a)</b>	Summarize about Biomedical Engineering.	(4 1 . )
	(b)	Identify and mention any FOUR (4) Biomedical Engineering Soci	(4 marks) eties. (4 marks)
	(c)	Mention any TWO (2) points to become biomedical engineer in the	
Q2	<b>(a)</b>	Appraise about the Rehabilitation and categorize it.	(5 marks)
	<b>(b)</b>	Summarize the purpose of wearable monitoring technology and gi <b>THREE (3)</b> examples of its types.	
			(5 marks)
Q3		Illustrate the <b>FIVE (5)</b> main classes of antibodies (immunoglobuli and isotypes using appropriate figures.	n) (10 marks)
Q4		Explain the following basic parameters in Ultrasound measurement	nt:
		<ul><li>(a) Pulsed Sound</li><li>(b) Duration</li></ul>	(2 marks)
		(c) Spatial Pulse Length	(2 marks)
	(d) Pulse Repetition Period	(2 marks)	
		(e) Duty Factor	(2 marks)
			(2 marks)
Q5		Summarize any <b>FIVE (5)</b> of the following terms commonly used in monitoring, processing, and evaluation: (i) Availability (ii) Performance	n the area of

- (iii) Decision Making
- (iv) Baselining
- (v) Prediction
- (vi) Automation
- (vii) Autonomic Computing.

(10 marks)

**TERBUKA** 

## -END OF QUESTIONS -

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