

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2018/2019

COURSE NAME

MULTIMEDIA SYSTEM AND

APPLICATION

COURSE CODE

: BIM 20404

PROGRAMME CODE :

BIM

EXAMINATION DATE :

JUNE/JULY 2019

DURATION

3 HOURS

INSTRUCTION

(A) ANSWER ALL QUESTIONS

(B) PLEASE WRITE YOUR

ANSWERS IN THIS QUESTION

BOOKLET

THIS QUESTION PAPER CONSISTS OF FIFTEEN (15) PAGES

Q1 (a) Define multimedia learning.

(4 marks)

(b) Given the following Figure Q1:

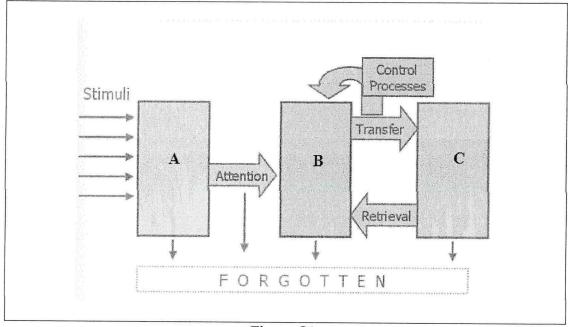


Figure Q1

(i) Name the **THREE** (3) components of A, B and C for the memory and learning model in **Figure Q1**.

(3 marks)

Component	Name
A	
В	
C	

(ii)	Identify which	component in	Figure Q1	is also	known as working memory.	
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(1 mark)

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(iii)	Identify the key problem that commonly happen in component B.	(2 marks)
(iv)	Analyze how the problem in Q1(b)(iii) can be occured in component B.	(6 marks)
(v)	Analyze TWO (2) factors which can influence the attention of information from component A to component B.	moving the (4 marks)
(i)		
(ii)		

Q2 Questions Q2(a)-Q2(d) are based on the given scenario.

Mobile Excellent Enterprise was assigned by Ministry of Health to develop an interactive mobile application about calorie control in order to encourage Malaysian to practise healthy lifestyle. The application enables the users to monitor their calorie level and calculate the calorie needed daily. The application also provides the user with 3 sets of exercises which well illustrated and described ensuring that they are performed correctly. Beside that, it includes a number of useful tips concerning a healthy lifestyle and meals suggestion with calorie counts.

	opriate authoring	tool that can	be used in this	project. Gi	ve TWO
(2) reasons.					(6 marks)
Authoring Tool					
Reasons	(i)				
	(ii)				
Draw FOUR (4 stated in the cas	l) interface design	ns (including n	main menu) base	ed on the re	quiremen
stated in the eas	o study doore.			(12 marks

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(ii)	
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(iii)	

6

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(iv)	

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(c)	Draw the surface navigation structure for the proposed application based on the main menu designed in Q2(b) . (8 marks)			
		(o marks)		

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Q3

(d)	Justify THREE (3) reasons why people nowdays prefer to choose mobile aplication rather than other electronic application.		
	rather than other el	ectronic application.	(6 marks)
(i)			
(ii)			
			-
(iii)			
(111)			
(a)	Describe TWO (2) types of web documents.	75 - 1 >
			(6 marks)
-	Туре	Description	
(i)			
(ii)			
(11)			



(b)	Give THREE (3)	differences	between HTML and XML.	
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(6 marks)

HTML	XML
(i)	(i)
(ii)	(ii)
(iii)	(iii)

You are given a task by your lecturer to develop a website. If you are given a choice to use either HTML or XML as the programming language, which language that you most prefer? Give **TWO** (2) reasons.

(6 marks)

Programming Language	
Reasons	(i)
	(ii)

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Q4 (a) Name the transmission method in Figure Q4 to distribute multimedia information over the network. (1 mark)

BBC router user 3
router user 4
user 5
user 6

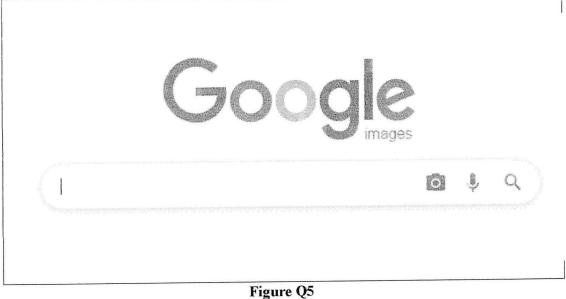
Figure Q4

(b)	Explain the transmission method answered in Q4(a) .	(2 marks)

(c)

an ap	propriate diagram.	ther transmission method. Su	(4 mar
Tran	smission Method		
Diag	ram		
			4 of real time data in Fig.
Real Q4.	l-time Protocol (RTP)	is designed for the transpor	t of real-time data in Fig
(i)	Name the compani	on protocol for RTP.	(1 m
(ii)	Describe TWO (2) types of companion protoco	l packets in Q4(d)(i) . (4 ma
	Types	Des	scription
(i)			
(ii)			

Questions Q5(a)-Q5(b) are based on the Figure Q5. Q5



(a)	Analyze the appropriate image retrieval method used in Figure Q5.	(4 marks)
		(4 IIIai K5)

In your opinion, give THREE (3) reasons why Google provide an alternative search (b) engine using image instead of keyword indexing.

	(6 marks)
(i)	
(ii)	

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(a) Differentiate between	Steganography and	Cryptography.	(4 r
Steganograpl	hy	Cryptog	raphy
(b) Describe TWO (2) ma	essage carriers for s	steganography.	
(b) Describe TWO (2) mo	essage carriers for s		(4 1
Message Carrier	essage carriers for s	steganography. Description	(4 1
	essage carriers for s		(4 1
Message Carrier	essage carriers for s		(4 1
Message Carrier	essage carriers for s		(4 1
Message Carrier (i)	essage carriers for s		(4 1
Message Carrier	essage carriers for s		(4 1
Message Carrier (i)	essage carriers for s		(4 1
Message Carrier (i)	essage carriers for s		(4 1

-END OF QUESTION -

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