

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II **SESSION 2017/2018**

COURSE NAME

MULTIMEDIA SYSTEM AND

APPLICATION

COURSE CODE

: BIM 20404

PROGRAMME CODE : BIM

EXAMINATION DATE : JUNE 2018 / JULY 2018

DURATION

3 HOURS

INSTRUCTION

ANSWER ALL QUESTIONS (A)

PLEASE WRITE YOUR (B)

ANSWERS IN THIS QUESTION

BOOKLET

THIS QUESTION PAPER CONSISTS OF THIRTEEN (13) PAGES



Q1	(a)	Define the following terminology:	
			(4 marks)

Terminology	Definition
(i) Internet Protocol (IP)	
(ii) IP address	

(b) Describe **TWO (2)** types of IP address. Give **ONE (1)** example of application that is best used in each IP address.

(8 marks)

	A	В
Туре		
Description		
Example of Application		

(c) Explain TWO (2) functions of IP address.

(4 marks)

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(d)	Who assign the IP address? Give ON	E (1) example in Malaysia. (2 marks
Assig	n by:	
Exam	pple:	
Giver	n the following scenario:	
audio	on.com.my offers live and on-der ence. As online application, it to guarantee desirable quality	mand video streaming services to thei requires several setup protocols in of services (QoS).
(a)		time Transport Protocol (RTP) and Real-Time figure to show how both protocols operate
	differential.	(8 marks
R	eal-time Transport Protocol (RTP)	Real-Time Streaming Protocol (RTSP)
Figure	2 :	

(b)	Discuss why real-time multimedia application requires both RTP and RTS of the common Internet protocol HTTP.					
		(8 marks)				
(c)	Name the companion protocol of RTP.					
(0)	Traine the companion protocol of RTT.	(1 mark)				
		1				
(d)	Analyze how protocol answered in Q2(c) monitor QoS in streaming	system.				
		(6 marks)				
(i)						
(-)						
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(iii)	Section in the second section in the section in the second section in the second section in the second section in the section in the second section in the section in	- A				
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Q3

(i) (ii) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iii) (iv) (iv)	(e) Suggest TWO (2) of specific protoco	ways on how Tonte	on can improve their services ins	tead of the use
(a) Define HTML and XML. (4 mark HTML XML (5) Suggest which scripting language in Q3(a) is most suitable to develop an e-learnin website. Give TWO (2) reasons. (4 mark Scripting Language: Reasons: (i)				(4 marks)
(a) Define HTML and XML. (4 mark HTML XML b) Suggest which scripting language in Q3(a) is most suitable to develop an e-learnin website. Give TwO (2) reasons. (4 mark Scripting Language: Reasons: (i)	(i)			
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Scripting Language: Reasons: (i) (ii)	website. Give TW	(2) reasons.		(4 marks)
Reasons: (i)				,
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Q4	(a)	Differentiate	between	multimedia	data	and	multimedia	object.	Give	ONE	(1)
		example of ea	ach.								
										(6 ma	rks)

	Multimedia Data	Multimedia Object
Difference:		
	9 A 1	
Example:		
-		

(b)	Describe THREE (3) categories of multimedia data structure.	
		(6 marks)

(i)	
(ii)	
(iii)	
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data structure categories answered in Q4(b).	dia
(1 ma	ırk)

(d) Discuss **ONE** (1) possible image retrieval technique that can be applied in the multimedia application illustrated in **Figure Q4(d)**. (5 marks)

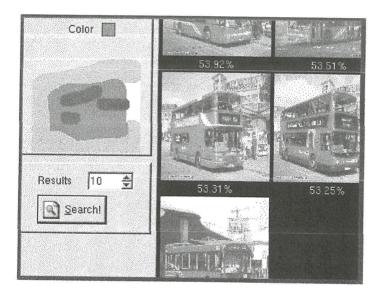


Figure Q4(d)



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Q5 Question Q5(a)-Q5(d) are based on the given scenario:

Media Power Enterprise was assigned by Ministry of Agriculture and Agrobased Industry to develop an interactive mobile application about Malaysian Herbs in order to introduce Malaysia as a biodiversity hub of herbal species. The application is expected to enable the user to explore the content by clicking their way through interactive buttons and infographic approach. The apps also have fun activity to engage user with the apps.

(a) Suggest an appropriate authoring tool that can be used in this project. Give **TWO** (2) reasons.

(5 marks)

Authoring Tool:	
Reason:	(i)
	(ii)

- (b) Draw **THREE** (3) interface designs for the following modules:
 - (i) main menu
 - (ii) content
 - (iii) fun activity

(12 marks)



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(i)	main menu	
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(ii)	content	
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(iii)	fun activity
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(d)

	rather than other electronic application.	(4 marks)
(i)		
(ii)		

Justify TWO (2) reasons why people nowadays prefer to choose mobile aplication

-END OF QUESTION -



13