

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME

FUNDAMENTALS TO WEB

TECHNOLOGY

COURSE CODE

BIW 10103

PROGRAMME CODE : BIW

EXAMINATION DATE : JUNE 2018 / JULY 2018

DURATION

3 HOURS

INSTRUCTION

ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF SIX (6) PAGES

TERBUKA

CONFIDENTIAL BIW 10103

CI	F	C	ГΤ	0	N	A
171	ייי	١.		.,	1.4	

Instruction: Choose the CORRECT answer.

Q1	What layer in the Transport Control Protocol / Internet Protocol (TCP/IP) stack is equivalent to the transport layer of the Open System Interconnection (OSI) model? (A) Application (B) Host-to-Host						
	(C) Internet (D) Network Access	(1 mark)					
Q2	Which Hypertext Markup Language (HTML) tag is used to describe a website? (A) (B) <meta/> (C) <body></body>						
	(D) <head></head>	(1 mark)					
Q3	Which class of Internet Protocol (IP) address provides a maximum of only addresses per network ID? (A) Class A (B) Class B (C) Class C	254 host					
	(D) Class D	(1 mark)					
Q4	What is the network ID for a computer whose IP address is 190.148.64.23? (A) 190						
	(B) 190.148 (C) 190.148.64 (D) None of the above	(1 1)					
		(1 mark)					
Q5	Which of the following is the most important area to be concerned in cloud compu	ting?					

- - (A)
 - (B)
 - Security Storage Scalability (C)
 - All of the above (D)

(1 mark)

CON	NFID]	ENTIAL BIW 10103			
Q6	Layer (A) (B) (C) (D)	which is not presented in TCP/IP model is: Application Layer Internet Layer Transport Layer Presentation Layer	1 mark)		
Q7	Which (A) (B) (C) (D)	of the following is TRUE regarding Client/Server system? It is platform dependent. Heavier processing is done by the client computer. All the processing is done by client. The client and the server should have some processing capabilities.			
			1 mark)		
Q8		When Zahra Nur is trying to access a Universal Resource Locator (URL), the following nessage is displayed on the browser:			
		HTTP/1.1 304 Not Modified			
	What o	could be the reason for the message?			
	(A) (B) (C) (D)	Redirecting the Web browser to another URL. The requested HTML file or CGI script has sufficient permission. Current links or records using the URL that the response is received should be updated. None of the above.	e		
	(-)		1 mark)		
Q9	Apart : (A) (B) (C) (D)	from tag, what other tag that makes text bold? <fat> <black> <emp></emp></black></fat>			
		(1 mark)		

(1 mark)

Q10 Which port is reserved for HTTP protocol? (A) 21

(B) 80

(C) (D) 23

53

(1 mark)

SECTION B

Instruction: Answer ALL questions.

Q11 (a) Discuss TWO (2) purposes of ping.

(4 marks)

(b) Explain the outcome in **Figure Q11** after running the following TCP/IP utility tool.

```
或 C:\WINDOWS\system32\cmd.exe
                                                                                        _ | 🗆 | × |
C:\>tracert www.google.com
Tracing route to www.google.com [209.85.231.147]
over a maximum of 30 hops:
                                ms
                                               8.166.static-lvsb.vsnl.net.in [121.244.
                                    59.163.25.242.static.vsnl.net.in [59.163.25.242]
           ms
                  72 ms
                            72 ms
                 421 ms
       420 ms
                           419 ms
                                     59.165.192.38.man-static.vsnl.net.in [59.165.192
                                ms
ms
                     ms
ms
                                     www.google.com [209.85.231.147]
Trace complete.
C:\>
```

Figure Q11

(4 marks)

Q12 (a) Consider the following HTML code:

```
<a href="http://www.uthm.edu.my/fsktm">
```

- (i) Provide the HTTP/1.1 request structure submitted by a browser.
- (ii) Provide the HTTP/1.1 response structure submitted by a server.

(5 marks)

(5 marks)

(b) Consider the following form:

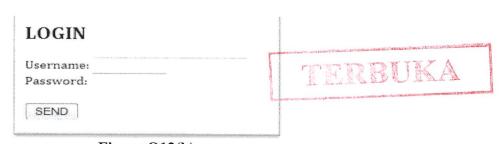


Figure Q12(b)

		(i)	Explain on how to secure the transaction after the SEND button is Figure Q12(b).			
				(5 marks)		
		(ii)	Using username=BIW10103 and password=WEBTECH, provide the HTT response structure submitted by a server.			
			response structure submitted by a server.	(5 marks)		
Q13	(a)	Give T	TWO (2) differences between Domain Name System (DNS) and IP a	ddress. (2 marks)		
	(b)	Explain	n SIX (6) steps on how DNS server works.	(6 marks)		
	(c)	List F (OUR (4) newest Top Level Domain in DNS.	(4 marks)		
Q14	(a)	Explain	n TWO (2) characteristics of cloud computing.	(4 marks)		
	(b)	Give T	TWO (2) advantages and TWO (2) disadvantages of cloud computing	g. (4 marks)		
Q15	(a)	Give F	OUR (4) types of web attacks.	(4 marks)		
	(b)	Sugges	ggest TWO (2) steps to secure each of the following:			
		(i)	web server.	(3 marks)		
		(ii)	web application.	(3 marks)		
	(c)	Determ	nine whether each of the following statement is True or False .			
		(i) Digital signatures are electronic files that are used to uniquely ide				
	(:	(ii)	and resources over networks. Secure Socket Layer (SSL) uses <i>Symmetric</i> encryption only.	(2 marks)		

Q16 Based on Figure Q16, write full HTML codes to generate a web page.



Figure Q16

(20 marks)

-END OF QUESTION -

