

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II **SESSION 2016/2017**

TERBUKA

COURSE NAME

FUNDAMENTALS OF WEB

TECHNOLOGY

COURSE CODE

BIW 10103

PROGRAMME CODE : 1 BIW

EXAMINATION DATE : JUNE 2017

DURATION

2 HOURS AND 30 MINUTES

INSTRUCTION

: ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF SIX (6) PAGES

CONFIDENTIAL

SECTION A

Choose the best answer for each of the following questions.

Q1 When Adam Adni is trying to access a uniform Resource Locator (URL), the following message is displayed on the browser:

HTTP/1.1 302 Found

What does the message represent?

- (A) Redirecting the Web browser to another URL
- (B) The requested HTML file has sufficient permission
- (C) Current links or records using the URL that the response is received for should be updated
- (D) Found the link

Q2	Internet Protocol	(IP)	address	128.5.5.5	belongs to	

- (A) class A
- (B) class B
- (C) class C
- (D) class D

TERBUKA

- Q3 The total number of IP address classes are _____.
 - (A) 3
 - (B) 4
 - (C) 5
 - (D) 9
- **Q4** 127.0.0.1 is a .
 - (A) limited broadcast address
 - (B) direct broadcast address
 - (C) multicast address
 - (D) loop-back address
- Q5 The main function of an SMTP server is to _____.
 - (A) compile email
 - (B) interpret email
 - (C) deliver emails from one network to another network
 - (D) deliver emails from one server to another server

CONFIDENTIAL

BIW 10103

06 Which of the following is not an advantage of cloud computing? No worries about running out of storage Easier to maintain a cloud network (B) (C) Immediate access to computing resources Paying only for what you use (D) "Yahoo", "Infoseek" and "Lycos" are . **O**7 Search Engines Browsers (B) News groups TERBUKA (C) (D) None of the above $\mathbf{Q8}$ Which of the following is the most important area to be concerned in cloud computing? Security (A) (B) Storage Scalability (C) All of the above (D) 09 A user found that his laptop is not functioning well and might have a virus. Which of the following should be performed? Connect the laptop to the network and scan the laptop. (A) (B) Use bootable media to run an antivirus scan on the laptop. (C) Reinstall the operating system. Back up the user's hard drive to a new laptop. (D) Which of the following is TRUE regarding Client/Server system? Q10 It is platform dependent (A) (B) Heavier processing is done by the client computer All the processing is done by user personal computer (C) (D) The client and the server should have some processing capabilities

(10 marks)

SECTION B

Q11 (a) Consider the following HTML code:

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

(10 marks)

(b) Consider the following form:



Figure Q11(b)

(i) Explain on how to secure the transaction after the SEND button is clicked in Figure Q11(b).

(5 marks)

(ii) Using username=BIW10103 and password=WEBTECH, provide the HTTP/1.1 response structure submitted by a server.

(5 marks)

Q12 (a) Explain data encapsulation.

(2 marks)

(b) A clerk type http://www.google.com into the web browser and hit enter.

Explain on how the domain name server works for the above transaction.

(6 marks)

- (c) List **TWO** (2) newest generic Top Level Domains in Domain Name System (DNS). (2 marks)
- Q13 (a) Explain THREE (3) layers of cloud service model.

(9 marks)

(b) Give **ONE** (1) technology for **EACH** layer explained in **Q13(a)**.

(3 marks)

4

CONFIDENTIAL

Q14 (a) Explain ONE (1) category of authentication method.

(2 marks)

- (b) Suggest TWO (2) steps to secure each of the following:
 - (i) web server.
 - (ii) web application.

(4 marks)

- (c) Determine whether each of the following statement is **True** or **False**.
 - (i) URLs that require SSL connection start with *https:* (port 433) instead of *http:* (port 80).
 - (ii) Secure Socket Layer (SSL) uses *Symmetric* encryption only.

(2 marks)

Q15 Based on Figure Q15, write full HTML codes to generate a webpage as in the given format.

Habitat For Humanity

<u>Learn About Habitat | Where We Build | Support Habitat | Stories and Multimedia</u>





A. Our Mission

Habitat for Humanity believes that every man, woman and child should have a decent, safe and affordable place to live.

B. Why We Build

There are nearly 2 billion people around the world who live in slum housing and more than 100 million are homeless.

Learn About Habitat	Where We Build
Support Habitat	Stories and Multimedia

@2017 Habitat for Humanity® International. All rights reserved.

Figure Q15

5

CONFIDENTIAL

CONFIDENTIAL

BIW 10103

Format:

- Background colour of the page should be yellow.
- Text style should be Times New Roman and colour should be green.
- Picture used in the page is the file "house.jpg".
- Table should have a border of colour blue.
- Use the concept of lists for creating the list given in the web page.
- Pages are linked to:
 - o LearnAboutHabitat.html
 - O WhereWeBuild.html
 - O SupportHabitat.html
 - O Stories.html

(20 marks)

-END OF QUESTION -

TERBUKA