



# UNIVERSITI TUN HUSSEIN ONN MALAYSIA

## FINAL EXAMINATION SEMESTER II **SESSION 2018/2019**

COURSE NAME

: FUNDAMENTALS OF WEB

**TECHNOLOGY** 

COURSE CODE

: BIW 10103

PROGRAMME CODE

: BIW

EXAMINATION DATE : JUNE / JULY 2019

**DURATION** 

: 3 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF SEVEN (7) PAGES

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Instru	iction:	Answer ALL questions.		
Q1	What funda	allows users to rent processing, storage, networking mental computing resources for all purposes?	and	other
	A. B. C. D.	IaaS SaaS PaaS XaaS	(1 1	mark)
Q2	What compu	provides on-demand network access to a shared pool of conting resources that can be rapidly provisioned and released?	nfigu	ırable
	A. B. C. D.	Metered computing Grid computing Cloud computing Utility computing	(1 r	mark)
Q3	What a	allows users to run existing online applications?		
	A. B. C. D.	IaaS SaaS PaaS EaaS	(1 n	nark)

Q4 What allows users to create their own cloud applications using supplier-specific tools and languages?

A. IaaS

B. EaaS

C. SaaS

D. PaaS

(1 mark)

#### **SECTION B**

Instruction: Answer ALL questions.

Q5 Based on the following given URL,

http://www.myRecipe.com.my/cuisine/rice/chickenrice.html

- (a) Provide the HTTP/1.1 request message structure send by an HTTP client to a server.
- (b) Provide the HTTP/1.1 response message structure send back by the server.

(6 marks)

Q6 Based on the following given domain name, outline in detail the SIX steps on how Domain Name System (DNS) server works when enter key is hit to the browser.

http://www.yahoo.com

(6 marks)

- Q7 (a) Provide the shorten IPv6 addresses of following:
  - (i) FE80:CD00:0000:0CDE:1257:0000:211E:729C
  - (ii) 0000:0000:0000:0000:0000:0000:C0A8:6420
  - (iii) 2041:0000:140F:0000:0000:0000:875B:131B
  - (iv) 2364:0000:F150::985D:25CB

(8 marks)

(b) Give an example scenario of why using proxy server can improve performance when making requests to web servers and response to web clients.

(4 marks)

- Q8 (a) How to prevent attackers from stealing data like username or password from network during data transmission?
  - (b) How to transport collected sensitive data online, such as credit card information or user ID information to the web server securely?

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- (c) Suggest any TWO (2) steps on how to secure a web server. (6 marks)
- Q9 Identify the similarity and differences between virus, worm and trojan horse.
  (4 marks)
- Q10 Consider the following given form in Figure Q10:

MyLOGIN
Username: Password:
SEND
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Figure Q10

Outline the full HTML codes to generate the login page in Figure Q10. The image file is uthm.png and located in resources folder with height=100 and width=260.

(8 marks)

(b) Using username = WEBTECH and password = BIW10103, provide the HTTP/1.1 request message structure send by the HTTP client to the server.

(5 marks)

(c) Explain on how to secure the transaction after the SEND button is clicked in Figure Q10.

(3 marks)

(d) How to identify the secure transaction from the URL?

(2 marks)

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Q11 (a) Based on Figure Q11(a), outline the full HTML codes to generate a linking to a specific part of the same page.

## Film-Making Terms

Arc Shot Interlude

Interlude Prologue

#### Arc Shot

A shot in which the subject is photographed by an encircling or moving camera

#### Interlude

A brief, intervening film scene or sequence, not specifically tied to the plot, that appears within a film

#### Prologue

A speech, preface, introduction, or brief scene preceding the the main action or plot of a film; contrast to epilogue

### Figure Q11(a)

(7 marks)

(b) Based on **Figure Q11(b)**, outline the full HTML codes to generate a linking to other sites. Use the following URL.

```
http://www.um.edu.my
http://www.usm.my
http://www.ukm.my
http://www.upm.edu.my
http://www.utm.my
```

### Universities in Malaysia:

- UNIVERSITI MALAYA (UM)
- UNIVERSITI SAINS MALAYSIA (USM)
- UNIVERSITI KEBANGSAAN MALAYSIA (UKM)
- UNIVERSITI PUTRA MALAYSIA (UPM)
- UNIVERSITI TEKNOLOGI MALAYSIA (UTM)

Figure Q11(b)

(6 marks)



(c) Based on Figure Q11(c), outline the full HTML codes to generate a linking to other pages on the same site.

- Home
- About
- Movies
- Contact

Figure Q11(c)

(4 marks)

Q12 (a) Based on Figure Q12(a), outline the full HTML codes to generate a webpage as in the given format.

	Month September	Rent r RM1500	Utilities		Groceries	Eating Out	Entertainmen
			RM100	RM50	RM350	RM100	RM50
Semester 1	October	RM1500	RM100	RM50	RM350	RM100	RM50
	November	RM1500	RM100	RM50	RM350	RM100	RM50
	December	RM1500	RM100	RM50	RM350	RM100	RM50

Figure Q12(a)

(12 marks)

(b) Based on Figure Q12(b), outline the full HTML codes to generate a webpage as in the given format. There are seven days option in the dropdown list.

Enter	your name:	
Enter	your password:	
Progra	nmme: P	
Which © Yea	year: ar 1	
	t registered: C101 BIC102 BIC103 BIC104	
Select !	Day: Sunday  ▼	
Enter	your special request here	
er franchischer (m. 18. de en	4	
SEND	CLEAR	

Figure Q12(b)

(15 marks)

- END OF QUESTIONS -

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