UTHM
Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION
SEMESTER II
SESSION 2014/2015

COURSE NAME	:	CLOUD COMPUTING
COURSE CODE	:	BIW 33303
PROGRAMME	:	2 BIW / 3 BIW
EXAMINATION DATE	:	JUNE 2015 / JULY 2015
DURATION	:	3 HOURS
INSTRUCTION	:	ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **THREE(3)** PAGES

Q1   Cloud computing is applications and services that run on a distributed network using virtualized resource and accessed by common Internet protocols and networking standards.

(a)   Examine **FIVE (5)** factors that a company should be revise before implementing a cloud computing.

(10 marks)

(b)   Discuss the concept of virtualization in cloud computing.

(5 marks)

(c)   Draw the NIST (US National Institute of Standards and Technology) model of cloud computing including the characteristics, service model and deployment model.

(6 marks)

(d)   Discuss **TWO (2)** deployment model in **Q1 (c)**.

(4 marks)

Q2   Consider the following scenario:

You are the IT consultant for Company Fatihah. There are requirements to add more hardwares and softwares for Finance department. You have heard about cloud computing services. The top management asked you to decide either to buy or lease from cloud computing service.

Based on the case study above, answer the questios below.

(a)   Outline a proposal to top management either to buy or lease from cloud computing service. (Tips: challenge, unique charateristics, benefits)

(15 marks)

(b)   Determine type of services required for this company if the company decide to lease from cloud computing company.

(4 marks)

(c)   Select **TWO (2)** types of cloud services in **Q2(b)** and propose **THREE (3)** cloud companies for each of the services.

(6 marks)

Q3   (a)   Analyze **TWO (2)** characteristics of Storage as a Service in a cloud computing enviroment.

(4 marks)

(b)   Analyze **THREE (3)** characteristics of OpenID application to secure any cloud application.

a. marks)

(c)   State and explain a function of any one cloud storage provider.

(3 marks)

(d)   Identify **SIX (6)** important points in reliability of Storage as a Service cloud computing.

(12 marks)

Q4   (a)   Illustrate **THREE (3)** services in Platform as a Service (PaaS).

(6 marks)

(b)   Explain **THREE (3)** charateristics of Software as a Service (SaaS).

(6 marks)

(c)   Describe thin client.

(3 marks)

(d)   UTHM enrollment has reach 15,000 students. The management asked you to conduct a research to use cloud computing services to deal with the growth. However, they worried about the security of the student and corporate data.

(i)   Analyze **THREE (3)** cloud based Disaster Recovery approaches to be proposed to the management.

(6 marks)

(ii)   Prepare a simple proposal for the best approach which include the proposed approach and justification.

(4 marks)

- END OF QUESTION -

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