



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
 (ONLINE)
 SEMESTER I
 SESSION 2020/2021**

- COURSE NAME : PRINCIPLES OF INFORMATION TECHNOLOGY
- COURSE CODE : BIT 11203
- PROGRAMME : BIT
- EXAMINATION DATE : JANUARY / FEBRUARY 2021
- DURATION : 3 HOURS
- INSTRUCTION :
 1. ANSWER ALL QUESTIONS.
 2. THE STUDENTS SHOULD UPLOAD THE ANSWER BOOKLET (PDF/WORD FORMAT) WITHIN 30 MINUTES AFTER EXAMINATION PERIOD.

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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- Q1** Suppose you are an editorial assistant at a publishing company. As part of your job, you prepare the schedule for book development and production. You circulate your first cut of the schedule to various editors and designers (more than 10 people) who return their copies with changes for you to incorporate. Contrast the difference in this process using a typewriter and using word processing.

(10 marks)

- Q2** Based on the scenario in **Figure Q2**. As a system analyst, write a proposal to Mrs. Nora that suggests a suitable system design which can minimize cost and help her succeed in her business.

Mrs. Nora runs her sprinkler installation business in Pahang. She spends most of her time working on site with her customers that are located all over Malaysia. She relies on 800 phone numbers, voice mail, a cellular phone and a laptop with a fax modem to run her business. Mrs. Nora advertises her 800 numbers in the Yellow Pages where potential customers in the urban/suburban can use the 800 numbers to call without charge. Therefore, she does not need any office, desk or building.

(10 marks)

FIGURE Q2

- Q3**
- (a) UTHM is in the process to implement a new attendance system for students. Name **THREE (3)** major stakeholders for the project.

(3 marks)

- (b) State an established methodology to ensure the project is successful

(2 marks)

- (c) Apply the methodology in question (b) for the project and discuss **ALL** the steps needed, each with specific action.

(15 marks)

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- Q4** Based on scenario in **Figure Q4**. Compare both advertisements and justify whether Ahmad will be the person that Garuda Technology Sdn. Bhd. is looking for.

Advertisement 1
Ahmad is looking for a position as system analyst. He claims that he has expertise in system design. Good technical skills in programming, database design and data communications. Experience on variety of hardware

Advertisement 2
Garuda Technology Sdn. Bhd. is an established software company that involved with many big projects. The company is looking for a system analyst that have very strong user orientation. Ability to assess system impact on user departments. Implementation skills, especially motivation and training of users.

FIGURE Q4

(10 marks)

- Q5** Based on scenario in **Figure Q5**. Illustrate a network design for the mobile company.

The mobile company has a bus local area network for the marketing department that consists of six personal computers, a modem used by outside field representatives to call in for price data, a shared laser printer, shared marketing program and data files and a server. The LAN for the design department also a bus network that consists of three personal computers, a shared printer, shared files and a server. Both LAN use the Ethernet protocol and have client/server relationships. The design department sometimes sends its in-progress work to the marketing representatives for their evaluation. Similarly, the marketing department sends new ideas from the field to the design department. The two department communicate to another via a bridge.

FIGURE Q5

(20 marks)

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Q6 Figure Q6 shows two internet addresses. Analyze the figure and answer the following questions.

- | |
|--------------------------------------------------------------------------|
| 1. https://www.msu.com.my/info |
| 2. g.nes@msu.com.my |

FIGURE Q6

- (a) State the domain name of those addresses. (2 marks)
- (b) Define both addresses. (2 marks)
- (c) What is the top level domain of both addresses, and which entity does it represent? (2 marks)
- (d) Discuss **ONE (1)** reason on why a domain name should be translated into its corresponding Internet Protocol (IP) address prior to packet routing. (2 marks)
- (e) Who manages the domain names to ensure they are unique? (2 marks)

- END OF QUESTION-

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