



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION (ONLINE) SEMESTER I SESSION 2020/2021

COURSE NAME : INTRODUCTION TO INFORMATION TECHNOLOGY
COURSE CODE : BIT 10203
PROGRAMME : 2 BIT
DATE : JANUARY / FEBRUARY 2021
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS.

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THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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Q1 Given the URL in **FIGURE Q1**, identify the following:

`http://uthm.edu.my/exhibitions/gall100/pioneer.html`

FIGURE Q1

- (a) protocol (2 marks)
- (b) domain (2 marks)
- (c) top-level domain (2 marks)
- (d) pathname (2 marks)
- (e) web page (2 marks)

Q2 A small catering company wants to create a new database for storing all their business transactions. As an IT consultant, you have been given the task to design the database.

- (a) Explain why you would want to use a database instead of a spreadsheet. (4 marks)
- (b) Identify **THREE (3)** entities that have meaning for the catering business. (3 marks)
- (c) List **THREE (3)** attributes for each entity you have identified in **Q2 (b)**. (9 marks)
- (d) In a relational model, what is the relationship between records and tables? (4 marks)

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Q3 You have been hired by a college to guide and facilitate the design of a new system for handling college applications, which has previously been handled entirely with a paper-based process. The college would like to set up a system by which prospective students can apply online.

- (a) Suggest **TWO (2)** problems of using paper-based process in handling college applications. (4 marks)
- (b) Discuss the initial steps you should perform before designing the new information system. (6 marks)
- (c) Describe **TWO (2)** advantages and **TWO (2)** disadvantages of engaging consultants to assist with implementation. (8 marks)
- (d) Describe the skills you need as IT professional in order to work effectively with the consultants. (4 marks)

Q4 The car tyre supply company you work for, Tyres2U, has noticed that one of its brands of tyres was not popular and recorded poor sales at the shop.

- (a) Identify **FOUR (4)** main types of information systems that are useful for the company. (4 marks)
- (b) For each of the types of information systems in Q4 (a), identify a query that might help understand this development (8 marks)
- (c) From the answers in **Q4 (a)**, which do you think will be the most helpful to the business. Justify your answer. (4 marks)

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Q5 For each of the following situations, determine whether the actions is permissible. Justify your answer.

- (a) You copy a picture posted on Facebook and add it to your personal web page. (3 marks)
- (b) You put a music clip from a movie into your class presentation. (3 marks)
- (c) You use parts of your friend's assignment from last semester in your class assignment. (3 marks)
- (d) You bought a computer and then sell a copy to a friend. (3 marks)

-END OF QUESTIONS -

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