



**UTHM**

Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2022/2023**

COURSE NAME : PRINCIPLES OF INFORMATION TECHNOLOGY  
COURSE CODE : BIT 11203  
PROGRAMME CODE : BIT  
EXAMINATION DATE : FEBRUARY 2023  
DURATION : 3 HOURS  
INSTRUCTION : 1. ANSWERS **ALL** QUESTIONS.  
2. THIS FINAL EXAMINATION CONDUCTED VIA **CLOSED BOOK**.  
3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK.

**TERBUKA**

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

**Q1** State either **TRUE** or **FALSE** for each of the following questions.

- (a) Character, field, record, file, and database are common data elements in order from smallest to largest. (1 mark)
- (b) Database is document or file that stored the data definitions and descriptions of the data structure used in the table. (1 mark)
- (c) Office Information System combines various technologies to reduce the manual labor required in operating an efficient office environment and to increase productivity. (1 mark)
- (d) Coaxial cable consists of dozens or hundreds of thin strands of glass or plastic that use light rather than electricity to transmit signals. (1 mark)
- (e) Access point is a station that sends and receives data to and from a Wi-Fi networks. (1 mark)
- (f) A worm is a program that hides within or looks like a legitimate program. (1 mark)
- (g) Web filtering software is a program that restricts access to specified websites. (1 mark)
- (h) A character is the smallest unit of data a computer can process. (1 mark)
- (i) Data can include text, number, sound, image, audio and video. (1 mark)
- (j) A multidimensional database is a database that stores data in tables that consist of rows and columns. (1 mark)
- (k) Operational management is responsible for implementing the strategic decision of executive management. (1 mark)
- (l) A Management Information System (MIS) summary report usually lists only transactions. (1 mark)
- (m) An information system is a set of hardware, software, data, people and procedures that works together to produce information. (1 mark)

- (n) A communication channel is the media on which data, instruction or information travel. (1 mark)
- (o) On a ring network, all the computers and devices on the network connect to a central device. (1 mark)
- (p) A packet is a special series of bits that function like a ticket. (1 mark)
- Q2** (a) Explain the importance of data to an organization. (2 marks)
- (b) Differentiate between file processing system approach and database approach. (4 marks)
- Q3** (a) Describe the difference between Client/Server, Peer-to-peer and P2P network. (6 marks)
- (b) Explain **TWO (2)** types of lines for communication over the telephone network. (6 marks)
- Q4** (a) State **FOUR (4)** Computer Based Information System (CBIS) with their level of organization management level. (8 marks)
- (b) List **TWO (2)** main reasons to create or modify the information system. (4 marks)
- Q5** By giving an example, discuss the following issues related to the impact of information technology in our daily life.
- (a) Freedom of expression (4 marks)
- (b) Mental health problem (4 marks)

**Q6** KKKL Express is developing a new bus route and scheduling system for their company.

- (a) State a methodology to ensure the project is successful. (2 marks)
- (b) List and explain **THREE (3)** major stakeholders for the project. (6 marks)
- (c) Discuss the steps of the methodology in **Q6(a)** for the project (18 marks)

**- END OF QUESTIONS -**

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