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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : COMPUTER SYSTEM AND NETWORK
COURSE CODE : BBU 30403
PROGRAMME CODE : BBF
EXAMINATION DATE : JULY/AUGUST 2023
DURATION : 3 HOURS
INSTRUCTION : 1. ANSWER ALL QUESTIONS.
2. THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK**.
3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK.

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

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- Q1**
- (a) Give the definition of server. (2 marks)
 - (b) List four (4) types of self-service kiosks. (4 marks)
 - (c) Explain the embedded computer and give an example of its use. (6 marks)
 - (d) Discuss the characteristics of the third-generation computer and the fourth-generation computer. (8 marks)
- Q2**
- (a) State the definition of system unit. (2 marks)
 - (b) Explain briefly how computers present data. (4 marks)
 - (c) Explain the control unit and arithmetic logic unit in the processor. (6 marks)
 - (d) Discuss the types of primary storage with an example. (8 marks)
- Q3**
- (a) State the definition of input device. (2 marks)
 - (b) State two (2) types of pointing devices and their characteristics. (4 marks)
 - (c) Explain the differences between LCD and LED monitors. (6 marks)
 - (d) Discuss criteria to be considered when choosing appropriate storage devices. (8 marks)

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- Q4** (a) Give the definition of network topology. (2 marks)
- (b) State two (2) characteristics of the Metropolitan Area Network (MAN) and the Wide Area Network (WAN). (4 marks)
- (c) Based on **Figure Q4**, discuss the types of transmission media, network topology and network devices used in the network. (14 marks)

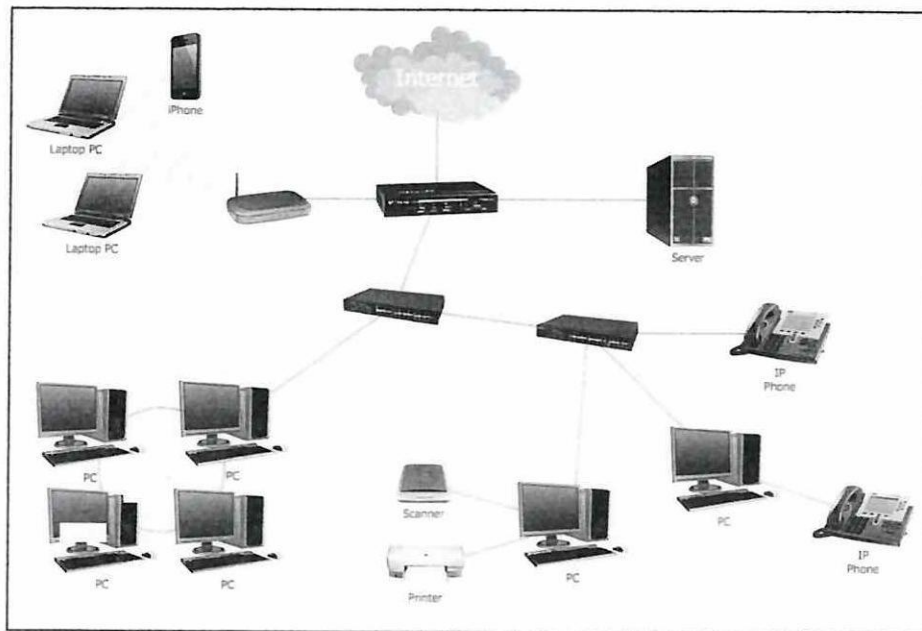


Figure Q4

- Q5** (a) State the definition of TCP/IP. (2 marks)
- (b) State the network devices used at the physical, data link and network layers in the Open Sources Interconnection (OSI) Model. (4 marks)
- (c) Design a network for 240 users with 60 hosts maximum for each department. Draw the network layout and the IP Address allocation using IP Addresses in Class C. (14 marks)

-END OF QUESTIONS-

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