

**UNIVERSITY COLLEGE TATI (UC TATI)****FINAL EXAMINATION QUESTION BOOKLET**

COURSE CODE	: DNT 3043
COURSE	: NETWORK MANAGEMENT
SEMESTER/SESSION	: 2 – 2021/2022 & 2022/2023
DURATION	: 3 HOURS

Instructions:

1. This booklet contains 5 questions. Answer **ALL** questions.
2. All answers should be written in answer booklet.
3. Write legibly and draw sketches wherever required.
4. If in doubt, raise your hands and ask the invigilator.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

THIS BOOKLET CONTAINS 4 PRINTED PAGES INCLUDING COVER PAGE

NETWORK MANAGEMENT (DNT 3043)

QUESTION 1

- a) Give **FOUR (4)** elements to operate the network. (4 marks)
- b) Describe the meaning of Network and the meaning of Management. (4 marks)
- c) Explain **FIVE (5)** elements of Network Management functions. (10 marks)
- d) Explain **TWO (2)** network management processes. (4 marks)

QUESTION 2

- a) List **TWO (2)** goals of network management. (2 marks)
- b) Differentiation between FCAPS model and FAB model. (4 marks)
- c) Give the function of Security Management. (2 marks)

Wireless connection at hostel University AAA is not consistent and slow. Students faced the problem with completing an assignment and project. Sometimes, it is hard to find important information that they want to know and doing some references. Sometime, hard to communicate with others especially sending e-mail and chatting. During the Covid-19, doing online class also have a problem where the connection is lost.

Scenario 1

- d) Due to scenario above, answer the question given:
 - i. Identify **FIVE (5)** problems that faced by the students. (5 marks)
 - ii. State **FIVE (5)** suggestions to mitigate the problem. (5 marks)
 - iii. List **FOUR (4)** benefits of applying the network management and monitoring for University AAA to improve the network performance. (4 marks)

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QUESTION 3

- a) State **TWO (2)** types of simple network management protocol. (2 marks)
- b) Describe the function of SNMP manager. (2 marks)
- c) Differentiate between Object Definitions and Notification Definition in MIB. (4 marks)
- d) List **FIVE (5)** commands used in SNMP v1. (5 marks)
- e) Give **FOUR (4)** types of SNMP community string in SNMP Security. (4 marks)

QUESTION 4

- a) List **FIVE (5)** of Management Information Base (MIB) elements. (5 marks)

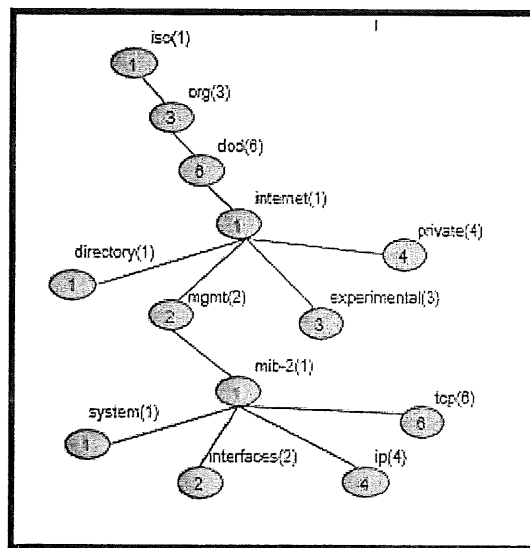


Figure 1: Object Identifier (OID) Diagram

- b) List the Object Identifier (OID) from the figure 1.
- i. 1.3.6.1.2.1.1 (2 marks)
 - ii. 1.3.6.1.2.1.6 (2 marks)
 - iii. 1.3.6.1.1 (2 marks)
 - iv. 1.3.6.1.2.1.2 (2 marks)

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- c) Identify **FOUR (4)** examples of network monitoring tools. (4 marks)

QUESTION 5

- a) List **FIVE (5)** goals of Remote Network Monitoring (RMON). (5 marks)
- b) Explain **TWO (2)** functions of Remote Network Monitoring (RMON). (4 marks)
- c) Differentiate **THREE (3)** characteristics between RMON MIB1 and MIB2. (6 marks)
- d) Explain why RMON specification was developed. (4 marks)
- e) List **THREE (3)** RMON MIB2 elements. (3 marks)

-----END OF QUESTIONS-----