



UNIVERSITY COLLEGE TATI (UC TATI)

FINAL EXAMINATION QUESTION BOOKLET

COURSE CODE	: DNT 3013
COURSE	: CLIENT SERVER COMPUTING
SEMESTER/SESSION	: 1-2023/2024
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 3 PRINTED PAGES INCLUDING COVER PAGE

QUESTION 1

- a) Define the following terms :
 - i) Client (2 marks)
 - ii) Server (2 marks)
 - iii) Middleware (2 marks)
 - iv) Relational Database (2 marks)
- b) State **FOUR (4)** the advantages of client server architecture. (4 marks)
- c) Explain the meaning of “**24x7**” in client server theory. (2 marks)
- d) There are **TWO (2)** network types, Peer-to Peer, and Client Server. Explain them and support your answer with logical topologies. (6 marks)

QUESTION 2

- a) Name **FOUR (4)** classes of client server applications. (4 marks)
- b) Describe and illustrate processing of client-based applications. (6 marks)
- c) Give **TWO (2)** differences between OSI model and TCP/IP model. (4 marks)
- d) OSI model is standard communication in client server. Briefly explain about session layer. (4 marks)
- e) Discuss term “**open**” in OSI model (2 marks)

QUESTION 3

- a) State **FOUR (4)** types of servers. (4 marks)
- b) Give **THREE (3)** types of server form factor. (3 marks)
- c) Bayu Purnama SDN. BHD. is a small medium engineering company focus in provide and services oil and gas spare parts. The manager wants to have file server, please recommend which server form factor is suitable and give **FOUR (4)** reason why choose that type. (5 marks)

- d) In choosing a type of hosting, reliable is main factor must be considered. Describe the meaning of “reliable”. (4 marks)
- e) Cloud hosting is a new type of hosting. State **THREE (3)** advantages of cloud hosting and give **ONE (1)** example of the company that offers this hosting. (4 marks)

QUESTION 4

- a) Define the following terms :
- i) Multiprocessing (2 marks)
 - ii) Multitasking (2 marks)
- b) State **FIVE (5)** main features to consider when selecting NOS. (5 marks)
- c) Windows NT is stand for? (1 mark)
- d) Describe application layer protocol named that capable Windows client to communicate with Linux server. (6 marks)
- e) Give **FOUR (4)** advantages of centralized load balancer. (4 marks)

QUESTION 5

- a) Describe the term of cloud computing? (2 marks)
- b) State **FOUR (4)** advantages of cloud computing. (4 marks)
- c) Explain about Infrastructure as a Service (IaaS) with **TWO (2)** of their benefits. (6 marks)
- d) The cloud computing is become important and rapidly grow in market. The big issues are the security. Discuss about security concern in cloud computing, also list market player in this field. (8 marks)

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

