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## NATIONAL OPEN UNIVERSITY OF NIGERIA University Village, 91 Cadastral Zone, NnamdiAzikwe Expressway, Jabi, Abuja FACULTY OF SCIENCES COMPUTER SCIENCE DEPARTMENT 2023\_1 POP EXAMINATION

Course Code: CIT701 Course Title: Foundation of Information and Communication Technology Course Credit Unit: 3 Time: 3hrs Instruction: Answer question 1 and any other three (3) questions.

1a) What are the measures that should be taken to ensure ICT service reliability? (4 marks)

b) State four characteristics of the management information systems? (4 marks)

c) Distinguish between Web-based application and personal/enterprise applications? (4 marks)

d) Enumerate the two types of interview conducted by a System Analyst during analysis? (3 marks)

e) What is feasibility and whose responsibility is it in the Information Technology (IT) department? (2 marks)

f) Who is the most valuable player in ICT application projects? Substantiate your answer. (4 marks)

g) List the four categories of hardware with examples. (4 marks)

2a) Define Network Topology. List any four types. (3 marks)

b) Discuss Database Normalisation? (6 marks)

c) In a tabular form, give three technologies of Web services and their functions. (6 marks)

3a) Briefly describe the four kinds of systems program you know. (6 marks)

b) (i) What do you understand by Web services? (1 mark)

(ii) Describe any two web services. Illustrate your answer with well-labelled diagrams. (8 marks)

4a) Outline in details the workings of web-based application. (7 marks)

b) Write short notes on the following network devices:

(i) Switches (4 marks)

(ii) Routers (4 marks)

5a) The Open Systems Interconnectivity (OSI) model has seven layers. Briefly describe the function(s) of these layer from the lowest to the highest. (10<sup>1</sup>/<sub>2</sub> marks)
b) Briefly explain three concurrency procedures followed in Data Warehousing? (4<sup>1</sup>/<sub>2</sub> marks)

6a) Write short notes on types of network connection. (7 marks)

b) Briefly describe four principal data models. (6 marks)

c) List four functions of a Database Management System (DBMS). (2 marks)