



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)*
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- 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)*
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- 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)*
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- 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)*
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- 5a) The **Open Systems Interconnectivity** (OSI) model has seven layers. Briefly describe the function(s) of these layer from the lowest to the highest. *(10½ marks)*
 - b) Briefly explain three concurrency procedures followed in Data Warehousing? *(4½ marks)*
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- 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)*