



**NATIONAL OPEN**

**UNIVERSITY OF NIGERIA**

**FACULTY OF SCIENCE**

**October/November 2016 Examination**

**Course Code: CIT 832**

**Course Title: INTRODUCTION TO OPERATING SYSTEMS AND NETWORKING MANAGEMENT**

**Instruction: Answer Any Four Questions**

**Time Allowed: 2 Hours**

**Course Unit: 2**

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|-----|---|-----------|
| 1a. | Outline any three common features of Graphical User Interface (GUI).                                      | 7½ marks  |
| b.  | List and explain four major components of most GUIs.  | 10 marks  |
| 2a. | Fully explain what is meant by an operating system.   | 4 marks   |
| b.  | Explain, with an example each, three classifications of operating system based on number of users.        | 7½ marks  |
| c.  | List six functions of an operating system.  | 6 marks   |
| 3a. | Write short note on system call.  | 5 marks   |
| b.  | Explain, with an example each, five types and purposes of system calls.                                   | 12½ marks |
| 4a. | Explain what is meant by communication protocol.  | 4 marks   |
| b.  | A protocol defines three aspects of communication. Outline them.  | 9 marks   |
| c.  | List the classification of computer networks by geographical area.  | 4½ marks  |
| 5a. | List three advantages and two disadvantages of an optical fibre.  | 5 marks   |
| b.  | Explain Infrared (IR) transmission and state three of its advantages.                                     | 6 ½ marks |
| c.  | List the four basic types of guided transmission media.   | 6 marks   |
| 6a. | Explain the Virtual Memory Concept.   | 5 marks   |
| b.  | Describe the following virtual memory concepts:<br>i). Paging<br>ii). Demand paging<br>iii). Segmentation | 7½ marks  |
| c.  | List five advantages of demand paging.  | 5 marks   |