**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**

**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:

    i). Paging

    ii). Demand paging

    iii). Segmentation                    7½ marks

 **c.** List five advantages of demand paging.                    5 marks