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# NATIONAL OPEN UNIVERSTYOF NIGERIA, University Village, 91 Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja FACULTY OF SCIENCE DEPARTMENT OFCOMPUTER SCIENCE SEPTEMBER, 2020\_1 EXAMINATIONS

#### COURSE CODE: CIT 832 COURSE TITLE: OPERATING SYSTEM CONCEPTS AND NETWORKING MANAGEMENT COURSE UNIT: 2 UNITS TIME ALLOWED: 2 HRS INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER 3 (3) QUESTIONS

# **QUESTION ONE**

- 1ai) Categorize the features of Graphical User Interface? (3 marks)
- 1aii) Appraise the evolution of Human and Machine Interaction (3 marks)
- 1aiii) What are GUIs? Analyse the Common Graphical User Interfaces (4 marks)
- 1b). Extensively discuss the following operating systems Architecture:
  - i. Network Operating System (3 marks)
  - ii. Distributed Operating System (**3 marks**)
  - iii.Multiprocessor Operating Systems (3 marks)
- 1c). In a tabular form distinguish four configuration procedure by method and operating system (protocols). (6 marks)

#### **QUESTION TWO**

- 2a). Briefly analyse the following Network security issues:
  - i. Integrity (3 marks)
  - ii. Confidentiality (3 marks)
  - iii.Availability (3 marks)
- 2bi). Justify why we study OS (3 marks)
- 2bii). Appraise the functions of Operating system (3 marks)

# **QUESTION THREE**

- 3a) Differentiate Router from Hub (6 marks)
- 3b) Compare the features of repeater and bridge (6 marks)
- 3c). With the aid of diagram, illustrate the positioning of an operating system in the overall computer system. (**3 marks**)

# **QUESTION FOUR**

- 4a) Discuss in detail the advantages that network offer to individuals and organization. (3 marks)
- 4b) Explicate the features of each of the following:
  - i. Local Area Network (LAN) (4 marks)
  - ii. Metropolitan Networks (MANs) (4 marks)
  - iii. Wide Area Network (4 marks)

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#### **QUESTION FIVE**

- 5a) Examine the five (5) components of data communication model (7<sup>1</sup>/<sub>2</sub> marks)
- 5b) Differentiate between the following: (i) Guided transmission media and (ii) Unguided transmission media (6 marks)
- 5c) Clarify the use of Multiprogramming Approach? (1<sup>1</sup>/<sub>2</sub> marks)