2024 1 EXAMINATION.

COURSE TITTLE: OPERATING SYSTEM CONCEPT AND NETWORKING
PROGRAMME: B.SC COMPUTER SCIENCE
COURSE TITTLE: OPERATING SYSTEM CONCEPT AND NETWORKING
COURSE CODE: CIT 832
CREDIT UNIT (S): 2 UNITS
TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTIONS ONE (1) AND ANY OTHER TWO (2)

QUESTION ONE (1)
a) List and explain 5 utilities toolbox used to manipulate Macintosh hardware and software resources   5 marks
b) Explain how User Interface can be designed using Interface Builder
                10 Marks
c) Explain the functioning of Resources Manager and Menu Manager of Toolbox
                5 marks
d) List and explain the logical structure of Windows 2000 domain   10 marks

QUESTION TWO (2)
a) Explain the computer operating system with a clear diagram   8 marks
b) State three reasons why study operating system is important   2 marks
c) Due to limited resources of computer systems, there is a need to optimize the use of resources allocation, explain with the aid of relevant diagram how the resources allocation can be effectively utilized.   10 marks

QUESTION THREE (3)
a) Explain how information is transmitted in a computer system using Open System Interconnection (OSI) reference model with appropriate diagram
                10 marks
b) Explain are the main motivation behind deployment of packet switching in data transmission   5 marks
c) How IP gateway can be used to connect two or multiple network devices
                5 marks

QUESTION FOUR (4)
a) Explain Unicasting, broadcasting and multicasting in data communication
                6 marks
b) Write briefly on the following protocols in respect to TCP/IP   14 marks
    i.   File Transfer Protocol (FTP)
    ii.   Network Filling System (NFS)
    iii. Remote Terminal Emulation (TELNET)
    iv.   Simple Mail Transfer Protocol (SMTP)