003-008102

M.Sc. I.T. Sem.-I Examination
January-2014
CMY 1002 : O.S. & Network Management

Faculty Code : 003
Subject Code : 008102

Time : 3 Hours| |Total Marks : 70

1.   Attempt the following questions : (any **four**)   **20**

   (1)   What is LAN ? How will you establish a LAN ? Describe it.

   (2)   Explain DNS configuration with active directory.

   (3)   Explain the connectivity of computers with cell phone and webcam.

   (4)   Describe FTP with services.

   (5)   Write a comparative note on FAT File system and NTFS in detail.

   (6)   Explain the administrative tools of windows – 2003 server.

2.   Attempt the following questions : (any **four**)   **20**

   (1)   What is Network Operating System ? Explain its features and requirements.

   (2)   Explain Logical Structure of Active Directory with Logical Component.

   (3)   Explain Command Line utilities of windows 2003 servers.

   (4)   Explain socket protocol.

   (5)   What is the Network File System ? How does it work ?

   (6)   Describe mail server.

3. Attempt the following questions : (any **five**)   **20**

   (1) What is Socket ? Explain Socket Method.

   (2) Describe Wireless Network.

   (3) Describe Virtual File Systems.

   (4) Write a short note on – Advantage of NTFS.

   (5) Explain Physical Address, Internet Address & Port Address.

   (6) What is IIS ? Explain features of IIS.

   (7) Write the following differences :

      (a) LAN vs VPN

      (b) GUI vs NONGUI

4. What is VFS ? Explain it with usefulness.   **10**

                              OR

   What is network addressing ? Give classification of it. Explain sub-netting
   & super-netting briefly, explain Classless addressing.

SC-003008102   Seat No._____

Master of Science(IT&CA) (CBCS) Semester-I
October/November-2012
O.S. And Network Management

Time : 2 ½ Hours   Total Marks : 70

Q.1   Attempt any Three   **[30]**

  (1) What is Operating System. Explain various type of OS along
       with its functionalities.
  (2) Explain OSI Model in detail.
  (3) Explain Active Directory with its Logical structure.
  (4) Explain various types of File Systems.

Q:2   Attempt the following   **[20]**

  (1) Differentiate between TCP and UDP
  (2) What is VPN. Explain Types of VPN.
  (3) Full Form of :IMAP, DHCP, SNMP, FQDN
  (4) A Your company would like to break the Class B private IP
  address range 172.16.0.0 into as many subnets as possible,
  provided that they can get *at least* 300 clients per subnet.

Q:3   Attempt any Four   **[20]**

  (1) What is Socket? Explain its types in detail.
  (2) Write steps to configure IIS in windows server 2003
  (3) Explain Sub netting and Super netting
  (4) Differentiate between ipv4 and ipv6
  (5) Write steps to create Email Server.

003-008102   Seat No._____

M. Sc. (Sem. I) (IT & CA) Examination

January – 2012

CMY1002 : O. S. & Network Management

(New Course)

Faculty Code : 003
Subject Code : 008102

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Time : 3 Hours]   [Total Marks : **70**

1   Explain following terms in brief.   5
    (i)   VFS
    (ii)   Deadlock
    (iii) TCP/IP
    (iv)   Port address
    (v)   HOSTID

2   Attempt any **two** of the following questions :   **20**
    (i)   Define Operating System. Give types of OS and
           explain each in brief. Explain the functions of
           operating system.
    (ii)   What is network addressing ? Give classification of
           it. Explain sub-netting and super-netting. Briefly
           explain classless addressing.
    (iii) (a) What is IIS ? What is the use of it ? Explain
           IIS service configuration.
           (b) What is FTP ? What is the use of it ? Explain
           FTP service configuration.

3   Attempt any **four** of the following questions :   **20**
    (i)   What is LAN ? How will you establish a wireless
           LAN ? Explain in detail.
    (ii)   Write a comparative note on Linux file system and
           NTFS in detail.
    (iii) Explain the Administrative tools of Windows-2003
           server.
    (iv)   Explain the security mechanism of Linux Server.
    (v)   Explain DNS configuration with active directory.

4   Attempt any **three** of the following questions :   15

   (i)   What is VPN ? Explain it with usefulness.

   (ii)   What is File Allocation Table ? Explain it with comparison to FAT32. What does the format command actually perform ?

   (iii) Write a comparative note on various Operating Systems.

   (iv) Explain the connectivity of computers with cell phone and webcam.

5   Attempt any **one** of the following questions :   10

   (i)   Explain LIXUX operating system architecture.

   (ii)   What is socket address ? Explain it with address transformation. Explain byte manipulation functions and socket systems calls.

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M. Sc. (Sem. I) (IT & CA) Examination
January - 2011
CMY 1002 : O.S. & Network Management

Faculty Code : 003
Subject Code : 008102

Time : 3 Hours]   [Total Marks : **70**

1   Answer the following multiple choice questions :   **15**

(1)   Which technique was introduced because a single job
      could not keep both the CPU and the I/O devices busy ?
      (A)   Time-sharing
      (B)   Spooling
      (C)   Preemptive scheduling
      (D)   Multiprogramming

(2)   What is the size of IPv4 ?
      (A)   4 bit
      (B)   8 bit
      (C)   16 bit
      (D)   32 bit

(3)   What is NFS ?
      (A)   Nervous failure system
      (B)   Natural file system
      (C)   Network file system
      (D)   New file system

(4)   The number of processes completed per unit time is
      known as ?
      (A)   Output
      (B)   Throughput
      (C)   Efficiency
      (D)   Capacity

(5) Since TCP/IP how many ports are supports ?

    (A) 65536

    (B) 65535

    (C) 255

    (D) 1048

(6) For Peer-to-peer connection

    (A) Modem is strictly required

    (B) Switch is strictly required

    (C) Router is strictly required

    (D) None of above

(7) Loop back ip address is

    (A) 127.128.129.130

    (B) 127.127.127.127

    (C) 127.0.0.1

    (D) 1.1.1.127

(8) 1k means

    (A) 1 Byte

    (B) 1 Kilo Byte

    (C) 1000 Byte

    (D) 1000 Kilo byte

(9) Where are group policies stored ?

    (A) %SystemRoot%System32\GroupPolicy

    (B) C:/Windows/Group Policy

    (C) %SystemRoot%Syetem32\GroupPolicy

    (D) C:/windows/root/policy

(10) Which network required more geographical area ?

    (A) MAN

    (B) WAN

    (C) LAN

    (D) Each required same geographical area

(11) What is a shell ?

    (A) It is a hardware component

    (B) It is a command interpreter

    (C) It is a part in compiler

    (D) It is a tool in CPU scheduling

(12) Virtual memory is means ?

    (A) An extremely large main memory

    (B) An extremely large secondary memory

    (C) An multitasking kernel

    (D) A type of memory used in super computers.

(13) CUI stands for

    (A) Character unified Id

    (B) Chrome user Id

    (C) Character universal Id

    (D) Character user interface

(14) IIS stands for

    (A) Indian Institute of Service

    (B) Internet Information Server

    (C) Indian Internet System

    (D) Internal Internet server

(15) Which one is non-GUI OS ?

    (A) MAC

    (B) Disk Operating System

    (C) Linux

    (D) All

2   Attempt any **five** of the following.   15

    (1) Explain semaphore.

    (2) Explain FAT and FAT32.

    (3) How we can identify the class of the IP-address ?

(4) Explain socket address.

(5) Explain kernal.

(6) Explain web server in reference of IIS.

3   Attempt any **three** of the following.   15

(1) Explain LAN and how we can established LAN also explain VPN.

(2) Compare GUI Vs Non GUI operating system.

(3) Explain file system and network file system.

(4) Explain FTP and mail services.

4   Attempt any two of the following.   15

(1) Describe wireless networks

(2) Operating system security

(3) Explain physical address, internet address and port address

5   Attempt any one of the following.   10

(1) What is DNS ? Explain DNS configuration with active directory.

(2) Explain subnetting and supernetting.

M. Sc. (IT & CA) Sem. I Examination

CMY1002: O.S. and Network management (New Course)

Time: 3: Hours   Total Marks: 70

Q-1. Attempt any Five of the Following: [20]
  1. Explain History of Operating systems
  2. Explain types of Operating system
  3. Differentiate local, Network and distribute file system?
  4. What do you need to install Active Directory?
  5. Explain peer to peer process
  6. What are registered and dynamic ports?

Q-2. Attempt any Three of the Following: [15]
  1. What is operating system? Explain Operating system objectives
  2. Differentiate UNIX like and Microsoft Windows operating system
  3. Explain how to create new user on windows server 2003
  4. Write a command to know how many user are logged on /Commented to a
     server

Q-3. Attempt any Two of the Following: [15]
  1. Explain various types of Socket with its uses
  2. Explain steps to create and configure web site in windows server 2003
  3. Differentiate Active and Passive FTP connections

Q-4. Attempt any Two of the Following: [20]
  1. What is Pop3? Explain its uses
  2. Differentiate point to point protocol(PPP) and Point to point Tunneling
     Protocol(PPTP) in relations to VPN
  3. Explain following networking related commands
     Ping, tracert, arp

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