B. C. A. (Sem. IV) (CBCS) Examination

April / May – 2015

CS 21: Network Technology and Administration

Faculty Code : 003
Subject Code : 003416

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

Instruction :   Answer of MCQ must be written in Answer sheet only.

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1   Attempt all MCQ question.   **20**

(1)   Point-to-point transmission with one sender and one receiver is called _____

(A)   Unicasting

(B)   Multicasting

(C)   Personal Area Network

(D)   LAN

(2)   The entities include the related layers on different machine are called _____

(A)   Protocol   (B)   Peers

(C)   Interface   (D)   Flow control

(3)   Sending packets to a group of stations is known as _____

(A)   Broadcasting.   (B)   Multicasting

(C)   Point-to-Point   (D)   Unicasting

(4)   ISDN is an example of _____ network.

(A)   Packet Switched   (B)   Frame relay

(C)   Ring based   (D)   Circuit switched

(5) A distributed network configuration in which all data/ information pass through a central computer is _____ Network.

    (A) Ring   (B) Bus

    (C) Mesh   (D) Star

(6) Which layer of OSI model is responsible for creating and recognizing frame boundaries?

    (A) Physical layer   (B) Network layer

    (C) Transport layer   (D) Data link layer

(7) Which data communication method is used to transmit the data over serial communication link?

    (A) Simplex   (B) Bi flex

    (C) Half duplex   (D) Full duplex

(8) IPV6 has _____ bit addresses.

    (A) 32   (B) 4

    (C) 16   (D) 128

(9) The most efficient medium for ATM is _____

    (A) Twisted pair   (B) Optical fiber

    (C) Coaxial cable   (D) The atmosphere

(10) Transport layer receives data from the _____

    (A) Session Layer   (B) Physical Layer

    (C) Data Link Layer   (D) Application Layer

(11) _____ connects network computers in start topology.

    (A) Multiple Access Unit

    (B) Multistation Access Unit

    (C) Multistation Authentication Unit

    (D) Multiple Area Unit

(12) RARP stand for _____

    (A) Return Address Resolution Protocol

    (B) Reverse Address Resolution Protocol

    (C) Reserve Address Resolution Protocol

    (D) Resolution Address Reverse Protocol

(13) With commonly deployed ADSL over POTS, the band from _____ is used for upstream communication.

    (A) 26.075 kHz to 137.825 kHz

    (B) 4.025 kHz to 25.125 kHz

    (C) 138 kHz to 1104 kHz

    (D) 115 kHz to 1104 kHz

(14) A protocol is a set of rules governing a time sequence of events that must take place _____.

    (A) Between peers   (B) Between interfaces

    (C) Between modems   (D) Across an interface

(15) What is the main function of the transport layer?

    (A) Process-To-Process Message Deliver

    (B) Node - To-Node Delivery

    (C) Synchronization

    (D) Updating and Maintenance of Routing Tables.

(16) TCP Port number 25 is for _____

    (A) SMTP   (B) HTTP

    (C) TELNET   (D) FTP

(17) TDM stand for _____.

    (A) Time Division Multiplexing

    (B) Time Divide Multiplexing

    (C) Time Duration Multiplexing

    (D) Time Decode Multiplexing

(18) How much data transfer speed provided by Twisted Pair cable.

    (A) 100 kbps   (B) 100 mbps

    (C) 1000 kbps   (D) 1000 mbps

(19) UHF stand for, _____.

    (A) Uniform High Frequency

    (B) Universal High Frequency

    (C) Ultra High Frequency

    (D) Unlimited High Frequency

(20) RIPv1 sends updates as broadcasts to address _____.

  (A) 192.168.255.255   (B) 192.255.255.255

  (C) 255.192.255.255   (D) 255.255.255.255

2 (A) Attempt any **Three**.   6

  (1) What is network topology? List out all topologies.

  (2) Explain Token passing method.

  (3) Explain Disk Quota.

  (4) Explain File services.

  (5) What is protocol? List out various protocols.

  (6) Write a short note on ARP.

  (B) Attempt any **Three**.   9

  (1) Explain types of VPN.

  (2) What is Proxy server? Explain in detail.

  (3) Write a short note on MMC.

  (4) What is ip address? Explain dynamic ip address.

  (5) What is Routing? Explain in detail.

  (6) Write a short note on Packet

(c) Attempt any **Two.**   10

    (1) Explain Distance vector routing with its types.

    (2) Explain in detail IPX/SPX.

    (3) Explain LAYER3 devices in detail.

    (4) Explain CDM and TDM in detail.

    (5) What is OSI reference model? Explain any 3 layers of OSI reference model.

3 (A) Attempt any **Three.**   6

    (1) Explain peer-to-peer network model.

    (2) Explain Encryption in detail.

    (3) Write a short note on Bluetooth technology.

    (4) What is Demultiplexing?

    (5) Write a short note on HUB.

    (6) What is ping? Explain in detail.

(B) Attempt any **Three.**   9

    (1) Explain RIP protocol.

    (2) Explain IPV4 in detail.

    (3) Explain Active Directory in detail.

    (4) Explain event logging policy in detail.

    (5) Explain Hash function in detail.

    (6) What is switching? Explain Packet Switching

(C) Attempt any **Two.**   10

    (1)   Explain CIA model.

    (2)   What is GPRS? Explain in detail.

    (3)   Explain PPTP and L2TP in VPN.

    (4)   Installation steps of 2008 server enterprise edition.

    (5)   Explain IPV6 with features.