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

March / April - 2019

CS-21 : Network Technology & Administration

(New Course)

Faculty Code : 003
Subject Code : 00340900

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

1 (a) Attempt the following :   4

    (1) What is Computer Network ?

    (2) OSI stand for _____.

    (3) Segmentation process done by _____ layer of OSI model.

    (4) _____ layer provide acknowledgement during data transfer from one node to another node.

  (b) Attempt the following : (any one)   2

    (1) Explain Encryption.

    (2) Explain Polling.

  (c) Attempt the following : (any one)   3

    (1) What is Network Topology ? Explain Star Topology.

    (2) Explain CDDI and FDDI network methods.

  (d) Attempt the following : (any one)   5

    (1) Explain OSI ref. model in detail.

    (2) Explain TCP/IP model in detail.

2 (a) Attempt the following :   4

    (1) What is Twisted Pair Cables ?

    (2) What is Transmission Media ?

    (3) The frequency range of VHF is _____.

    (4) Which switching method reduced traffic congestion ?

(b) Attempt the following : (any one) **2**

    (1) What is Guided Media ? List out all guided media.

    (2) What is DeMultiplexing ?

(c) Attempt the following : (any one) **3**

    (1) Difference between Hub and Bridge.

    (2) Difference between Router and Brouter.

(d) Attempt the following : (any one) **5**

    (1) What is layer 1 device ? Explain DSL, MODEM and Repeater in detail.

    (2) Explain FDM, TDM and WDM in detail.

3 (a) Attempt the following : **4**

    (1) MTA stand for _____.

    (2) _____ used to associate an IP address with the MAC address.

    (3) IGRP stand for _____.

    (4) OSPF stand for _____.

(b) Attempt the following : (any one) **2**

    (1) What is Routing ?

    (2) Explain connection oriented protocol.

(c) Attempt the following : (any one) **3**

    (1) Explain RFCOMM protocol.

    (2) Explain NETBIOS protocol.

(d) Attempt the following : (any one) **5**

    (1) Explain distance vector routing protocols with its all types.

    (2) Explain link state routing protocols with its all types.

4 (a) Attempt the following :   4

   (1) IPV6 contain how much byte address ?

   (2) Class D address reserved for_____.

   (3) An ip address 255.0.0.0 is a default address mask
        of class B. True/False ?

   (4) Which command is required to check connection
        status between two computers ?

   (b) Attempt the following : (any one)   2

   (1) Explain Dynamic ip address.

   (2) Explain supernetting process.

   (c) Attempt the following : (any one)   3

   (1) Explain Audit Policy of Window Server 2008.

   (2) Explain IPV4 with class structure.

   (d) Attempt the following : (any one)   5

   (1) Explain Domain, Tree and Forest concept.

   (2) Explain Migration from IPV4 to IVP6 in detail.

5 (a) Attempt the following :   4

   (1) CIA stand for _____.

   (2) Symmetric key is also known as _____.

   (3) ISDN network required _____ and _____ interface
        ports.

   (4) CCTV stand for _____.

   (b) Attempt the following : (any one)   2

   (1) What is Internet ?

   (2) What is Threat in network security ?

(c) Attempt the following : (any one)   3

    (1) Explain Cryptography.

    (2) Explain Dial-up in detail.

(d) Attempt the following : (any one)   5

    (1) Explain fundamentals of Network Security.

    (2) What are GPS and GPRS ? Explain GPRS in detail.

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