RAJ-003-004404   Seat No. _____

B. Sc. (IT) (Sem. IV) (CBCS) Examination

March / April - 2019

CS - 22 : Computer Network Technology

Faculty Code : 003

Subject Code : 004404

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

1 Answer the following :   20

(1) TFTP stands for _____.

(2) In the OSI reference model, as the data packet moves from the upper to lower layers headers are _____.

(3) A web cookie is a _____.

(4) The _____ address uniquely defines a host on the internet.

(5) The task of DHCP server is _____.

(6) IPv6 has _____ bit addresses.

(7) The _____ created a model called the Open System Interconnection, which allows diverse systems to communicate.

(8) Class D reserved for what ?

(9) Full form of BEG.

(10) The _____ address identifies a process on a host.

(11) What is packet switching ?

(12) Full form of FDDI.

(13) RTP runs on which protocol ?

(14) SIP is which layer protocol ?

(15) The primary function on DNS is to map domain name onto _____ records.

(16) Streaming stored audio/video application has now much delay.

(17) The internet model consists of _____ layers.

(18) The maximum range of a typical 802.11 Wi-Fi Wireless system.

(19) The default connection types used for HTTP is _____.

(20) SMTP is used to deliver messages to _____.

2 (a) Write any **three** out of six.   **6**
    (1) List the various classes of IP addressing.
    (2) Explain MAC address and IP address.
    (3) Differentiate IPv4 v/s IPv6.
    (4) What is connectionless internet working ?
    (5) What is Unicast ?
    (6) What is RFC ?

  (b) Write any **three** out of six :   **9**
    (1) Differentiate Datagram subnet v/s Virtual Circuit.
    (2) What is Fragmentation ?
    (3) Explain IP Protocol.
    (4) Differentiate ARP v/s RARP.
    (5) Explain Piconet and Scattemet with Bluetooth.
    (6) Describe Domain Name System.

  (c) Write any **two** out of five.   **10**
    (1) Explain DHCP in detail.
    (2) Explain Bootstrap protocol.
    (3) Explain TCP/IP with all its headers.
    (4) Explain Routing Algorithm.
    (5) Explain Congestion Prevention Policies.

3 (a) Write any **three** out of six.   **6**
    (1) What is MIME ?
    (2) What is Mail Relay ?
    (3) What is IntServ ?
    (4) Explain the term Paring in Bluetooth.
    (5) What is Difference between CSMA/CA and CSMA/CD ?
    (6) What is Connection oriented and Connection less internet working ?

  (b) Write any **three** out of six :   **9**
    (1) What is the role of IEEE in computer networking.
    (2) List out performance issues of networking.
    (3) What is Unicast, Multicast and Broadcast ?
    (4) What is SMTP ?
    (5) Explain Remote Login.
    (6) What is frame Relay ?

  (c) Write any **two** out of five :   **10**
    (1) Explain FTP with its General Model.
    (2) Discuss Static and Dynamic Web Pages.
    (3) Explain Scheduling and Policing Mechanism.
    (4) Explain Architecture of E-mail.
    (5) How to make streaming on stored audio and video ?