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Question Paper Code: 45802

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

Fifth Semester

Information Technology

14UIT502 - COMPUTER NETWORKS

(Common to Computer Science and Engineering)

(Regulation 2014)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- Which OSI layer considers the check points into a stream of data?
 - Data Link Layer
 - Transport Layer
 - Session Layer
 - Network Layer
- Telephone network is one of the example for
 - Simplex
 - Complex
 - Half Duplex
 - Full Duplex
- Who is the dispatcher in the network?
 - Bridges
 - Routers
 - Hub
 - Modems
- In transparent bridges, redundancy of bridges can create loops in system which is very
 - Easy
 - Undesirable
 - Difficult
 - Long
- Header of datagram in IPv4 has
 - 0 to 20 bytes
 - 20 to 40 bytes
 - 20 to 60 bytes
 - 20 to 80 bytes

6. ICMP is primarily used for
- (a) error and diagnostic functions (b) addressing
(c) forwarding (d) none of these
7. Which one of the following is a transport layer protocol?
- (a) stream control transmission protocol
(b) internet control message protocol
(c) neighbor discovery protocol
(d) dynamic host configuration protocol
8. In transport layer, End to End delivery is the movement of data from
- (a) one station to the next station (b) one network to the other network
(c) source to destination (d) one router to another router
9. Which one of the following allows a user at one site to establish a connection to another site and then pass keystrokes from local host to remote host?
- (a) HTTP (b) FTP (c) telnet (d) None of these
10. Which one of the following is not an application layer protocol?
- (a) media gateway protocol (b) dynamic host configuration protocol
(c) resource reservation protocol (d) session initiation protocol

PART - B (5 x 2 = 10 Marks)

11. What are the responsibilities of transport layer?
12. What is transceiver?
13. How circuit switching is working? What are advantages of circuit switching?
14. What are the advantages of Dynamic Host Configuration Protocol?
15. How does MIME enhance SMTP?

PART - C (5 x 16 = 80 Marks)

16. (a) Explain about framing and its types. (16)

Or

- (b) Explain about the error correction and detection in networks with example. (16)

17. (a) Explain about the FDDI with required diagrams. (16)

Or

(b) Identify the issues in Ethernet and recall the concepts involved in it. (16)

18. (a) (i) Compare virtual circuits and datagram. (8)

(ii) Explain about ARP in detail. (8)

Or

(b) Give a brief note on routing and explain distance vector routing and link state routing. (16)

19. (a) Give a brief clarification about UDP and TCP. (16)

Or

(b) (i) Discuss about adaptive retransmission. (8)

(ii) Explain various methods used to improve QOS in network transmission. (8)

20. (a) (i) What is the use of HTTP? Explain. (8)

(ii) Explain about SNMP. (8)

Or

(b) Elaborate about the RSA algorithm and give an one example. (16)

