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Question Paper Code: 45802

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

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 error detection method involves polynomials?
 - Simple parity check
 - Two - dimensional parity check
 - CRC
 - Checksum
- The process-to-process delivery of the entire message is the responsibility of the _____ layer.
 - Network
 - Transport
 - Application
 - Physical
- Who is the dispatcher in the network?
 - Bridges
 - Routers
 - Hub
 - Modems
- Errors in the Counter field is called as
 - Framing Error
 - Data Field Error
 - Address Field Error
 - Counter clock error

5. Header of datagram in IPv4 has
(a) 0 to 20 bytes (b) 20 to 40 bytes (c) 20 to 60 bytes (d) 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. _____ is collection of millions of files stored on thousands of servers all over the world
(a) Internet (b) World wide web (c) HTTP (d) Server
10. A DNS _____ servers gets its data from another DNS server
(a) primary (b) secondary (c) root (d) all of the above

PART - B (5 x 2 = 10 Marks)

11. What are the three criteria necessary for an effective and efficient network?
12. Compare Transparent bridge Vs Source routing bridge.
13. List out features in OSPF.
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) Draw the OSI network architecture and explain the functionalities of every layers in detail. (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) (i) Discuss briefly about CSMA (8)

(ii) Briefly write about token ring (8)

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

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

Or

(b) Explain distance vector routing with suitable example. (16)

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

Or

(b) Illustrate TCP congestion control techniques in detail. (16)

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

(ii) Explain about SNMP. (8)

Or

(b) Write short notes on

(i) FTP (8)

(ii) TELNET (8)

