

CLASS: BCA

15A / 62

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 3 Hrs.

MAXIMUM MARKS: 100

| SEM | SET | PAPER CODE | TITLE OF THE PAPER |
|-----|------|-------------|--------------------|
| VI | 2012 | 11UBC630216 | COMPUTER NETWORKS |

SECTION – A

Answer all the questions:

20 x 1 = 20

Choose the correct answer:

- _____ is a digital process that allows several connections to share the high bandwidth of a link.
a) ATM
b) FDM
c) TDM
d) WDM
- In _____ is a protocol that implements ARQ mechanism.
a) Flow control
b) Error control
c) HDLC
d) ARM
- Packets in the IP layer are called _____.
a) Datagram
b) Routing
c) Quench
d) Tunneling
- A _____ socket is used with a connection-oriented protocols such as TCP.
a) Datagram
b) Stream
c) Port
d) Client
- _____ protocol is also called as security association.
a) Tunnel
b) TCP
c) Signalling
d) None of the above

Fill in the blanks:

6. The _____ is the most fundamental form of a periodic analog signal.
7. CHAP stands for _____.
8. _____ uses translation tables to route messages.
9. MIME stands for _____.
10. DES stands for _____.

State True or False:

11. A point-to-point connection provides a dedicated link between two devices.
12. In fast ethernet RS replaces the PLS sub layer in 10-mbps ethernet.
13. Multicasting communication is one source sends a packet to multiple destinations.
14. The HTTP is not used to access data on WWW.
15. IP Sec is a collection of protocols designed by IETF to provide security for a packet at IP level.

Match the following:

- | | |
|--------------------|------------------------------|
| 16. Internet Model | - a) CSMA/CA |
| 17. Wireless LAN | - b) DNS Client |
| 18. TCP | - c) TCP/IP protocol suite |
| 19. Resolver | - d) one-time session key |
| 20. DH protocol | - e) sliding window protocol |

SECTION – B

Answer all the questions:

5 x 4= 20

21. a. Write a short note on various categories of network.

OR

- b. Write a note on SONET.
22. a. Describe in detail GO-BACK-N ARQ protocol.
- OR**
- b. Write a note on Point-to-Point protocol.
23. a. Write a note on UDP and TCP.
- OR**
- b. Discuss Multicast routing protocols.
24. a. Draw the diagram of client server model and explain the same.
- OR**
- b. What is FTP? Write a note on it.
25. a. Write a short note on traditional Ciphers.
- OR**
- b. Write a detailed note on IP level security.

SECTION – C

Answer any FOUR questions:

4 x 15 = 60

26. Explain the functions of each layer in a network model.
27. Discuss the Satellite networks.
28. Write a brief note on different network layer protocols.
29. Explain the concepts of HTTP and WWW.
30. Discuss in detail the key management techniques.
