REV-01
BCA/05/10

2024/05

SET A

BACHELOR OF COMPUTER APPLICATION
FOURTH SEMESTER (REPEAT)
COMPUTER NETWORKS
BCA-402

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs. **Full Marks: 70**

Objective

Time: 30 mins. **Marks: 20**

Choose the correct answer from the following: ***1×20=20***

1. To protect the computer system against the hacker and different kind of viruses, one must always keep ……..on in the computer system.
   a. Antivirus b. Firewall
   c. Swapping d. Packet filter
2. Which of this is not a network edge device?
   a. PC b. Smartphone
   c. Server d. Switch
3. Three or more devices share a link in ……connection.
   a. Unipoint b. Multipoint
   c. Point to point d. Simplex
4. Communication channel is shared by all the machines on the network in……..
   a. Broadcast network b. Unicast network
   c. Multicast network d. Anycast network
5. Bluetooth is an example of……
   a. Virtual Private Network b. Wide area network
   c. Personal area network d. Local area network
6. A…… is a device that forwards packets between networks by processing the routing information included in the packet.
   a. Bridge b. Firewall
   c. Router d. Hub
7. A list of protocols used by a system, one protocol per layer, is called……
   a. Protocol architecture b. Protocol stack
   c. Protocol suite d. Protocol system
8. Which of the following layers is an addition to OSI model when compared with TCP IP model?
   a. Application layer b. Presentation layer
   c. Session and Presentation layer d. Session layer
9. The…… layer is responsible for node to node packet delivery.
   a. Session b. Network
   c. Physical d. Data link

10. The speed mismatch between the sender and the receiver is called.....
    a. Error control
    b. Speed error
    c. Flow control
    d. Transmission control

11. In fiber optics, the signal source is .....waves.
    a. Light
    b. Radio
    c. Infrared
    d. Very low frequency

12. The result of 0 – 1 in binary is.....
    a. 0
    b. 1
    c. 11
    d. 10

13. IEEE has defined the specifications for a wireless LAN called ....., which covers the physical and data link layers.
    a. IEEE 802.3
    b. IEEE 802.5
    c. IEEE 802.11
    d. IEEE 802.2

14. What layer in the TCP/IP stack is equivalent to the Transport layer of the OSI model?
    a. Application
    b. Host-to-Host
    c. Internet
    d. Network

15. Which of the protocol is used for E-mail services?
    a. SMTP
    b. PPP
    c. DHCP
    d. HTTP

16. FTP runs exclusively over.....
    a. HTTP
    b. TCP
    c. SMTP
    d. HTML

17. Which of the following does not have a Net ID and Host ID?
    a. Class A
    b. Class B
    c. Class C
    d. Class D

18. In which of the following, a person is constantly followed/chased by another person or group of several peoples?
    a. Phishing
    b. Bulling
    c. Identity theft
    d. Stalking

19. Communication between a computer and a keyboard involves..... transmission.
    a. Automatic
    b. Half-duplex
    c. Full-duplex
    d. Simplex

20. Hackers usually used the computer virus for .....purpose.
    a. To log, monitor each and every user's stroke
    b. To gain access the sensitive information like user's Id and Passwords
    c. To corrupt the user's data stored in the computer system
    d. All of the above

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Descriptive

Time : 2 hr. 30 mins. Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. a) What do you mean by Networks? 2+8=10
   b) Explain different types of Network hardware component devices in detail.
2. a) Define the concept of wireless communication. 2+8=10
   b) Explain various types of Networks with suitable diagram.
3. Explain the following: 5+5=10
   a) Network cable type.
   b) Different types of Network Topologies
4. a) Define the following: 4+6=10
   1. NIC
   2. MAC
   b) Illustrate the concept of switching techniques in details.
5. a) State few lines on TCP. 2+8=10
   b) Explain OSI Model 7 layer Architecture in detail.
6. a) What do you mean by Token Bus? 2+8=10
   b) Demonstrate IEEE 802 standards in detail.
7. a) Define IPV4 & IPV6 Address formats. 5+5=10
   b) Explain the address ranges of various classes of IP address range.
8. a) What is Firewall? Explain its different types with suitable diagram. 5+5=10
   b) Differentiate Windows defender and Antivirus.

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