



K. Sambal

Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment I – February 2025 Semester- IV

Class: II UG(Repeaters)

Time : 2 Hrs

Major: Computer Applications

Max. Marks: 60

18BCAC15/21BCAC15 Computer Networks

Course Outcomes:

1. Discuss the basic rudiments of networking concepts.
2. Analyze in detail and understood the basic idea of different protocol.
3. Analyze routing, packet switching and routing algorithms concepts.
4. Recognize the services of connection-less and connection oriented protocols.
5. Assess the internet domains and its services

Part A

6 x 1 = 6

Choose the correct answer

1. Which of the following is used for Bluetooth? CO1K1
a. WAN b. LAN c. PAN d. MAN
2. Which topology does the internet resemble? CO1K1
a. Ring b. Bus c. Star d. Mesh
3. What protocol is commonly used for transmitting web pages over the internet? CO2K1
a. SMTP b. FTP c. HTTP d. SNMP
4. What type of cable is used for most modern Ethernet networks? CO2K3
a. Fiber Optic b. Coaxial c. Twisted Pair d. Optic
5. Which OSI layer is responsible for error detection and correction at the destination CO2K3
a. Transport b. Network c. Data Link Layer d. Physical
6. What mechanism do Ethernet switches use to avoid collisions? CO3K2
a. Collision prevention b. Collision Avoidance c. Collision Recovery d. Collision Management

Part B

3 x 6 = 18

Answer all questions

Answer should not exceed 400 words or two pages

7. a. What are the benefits and drawbacks of a computer network? CO1K6
(or)
7. b. What are the different types of wireless transmission, and how do they work? CO1K3
8. a. Give a brief explanation of the TCP/IP model. CO2K2
(or)
8. b. Explain the Simplex Protocol with the help of a diagram. CO2K2

9. a. Write notes on Medium Access Sub Layer CO3K2
(or)
9. b. Write a brief explanation of Ethernet. CO3K1

Part C

3x12=36

Answer all questions

Answer should not exceed 800 words or four pages

- 10.a. Discuss the significance of the OSI reference model in computer networks. CO1K1
(or)
10.b. Explain the concept of Guided Transmission Media, its types, working principles, and the advantages it offers CO1K1
11.a. Describe the services offered by the Data Link Layer. CO2K1
(or)
11.b. Describe the methods used for error detection and correction codes. CO2K1
12.a. Give an in-depth explanation of the Sliding Window Protocol. CO2K1
(or)
12.b. Explain Static and Dynamic Channel Allocation, highlighting their differences, advantages, and how each method works in a network? CO3K1

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