



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
Major: Computer Applications

Time : 2 Hrs
Max. Marks: 60

23BCAC07 Computer Networks

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 connectionless and connection-oriented protocols.
5. Assess the internet domains and its services.

Part A

Circle the Correct Answer

6X1 = 6

1. The transmission which has the highest transmission speed in a network is _____ CO1K4
a. Co-axial b. Twisted-Pair c. Optical fiber d. Electrical cable
2. Bluetooth is an example of _____ CO1K2
a. Public b. LAN c. Personal d. VPN
3. In TCP-IP model, when data is send from device A to Device B, the 5th layer to receive the data at B is _____ CO2K2
a. Application layer b. Transport layer c. Link Layer d. Session layer
4. When the inter-mediate nodes receive a message before sending it on to the next node is called as _____ CO2K1
a. Packet switching b. store and - forward switching
c. cut-through switching d. All the above
5. The network layer concerns with _____ CO2K3
a. Bits b. frames c. packets d. router
6. Version 6 of IP address has how many bits CO3K4
a. 64 bits b. 128 bits c. 32 bits d. 256 bits

Part B

Answer All questions

5X6=30

Each answer should not exceed 200 words or one page.

- 7.a. Describe electromagnetic spectrum CO1K4
(Or)
- 7.b. Explain about guided transmission media. CO1K2

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| 8.a. Illustrate about framing and error control
(Or) | CO2K2 |
| 8.b. Discuss about Simplex Stop-and-Wait Protocol for Error-Free Channel and Noisy Channel | CO2K4 |
| 9.a. Discuss about channel allocation problem.
(Or) | CO3K2 |
| 9.b. Explain about MAC Sublayer Protocol. | CO3K3 |

Part C
Answer the following **5X12=60**
Answer should not exceed 800 words or four pages.

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| 10.a. Discuss about the concept of OSI model with diagram in detail.
(Or) | CO1K2 |
| 10.b. Explain about the concept of TCP/IP model with diagram | CO1K3 |
| 11.a. Discuss about Sliding Window Protocols.
(Or) | CO2K2 |
| 11.b. Describe in detail about Error Detection codes and detection methods. | CO2K4 |
| 12.a. Describe in detail about wireless LANs.
(Or) | CO3K2 |
| 12.b. Explain in detail about Ethernet Performance with its types and 802.11 Services | CO3K3 |

Faculty : Ms. S. Rama Mercy
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