PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - COMPUTER SCIENCE

COMPUTER NETWORKS

Tim	e: Th	ree Hours Maximum: 50 Marks
		SECTION-A (5 Marks)
		Answer ALL questions ALL questions carry EQUAL marks $(5 \times 1 = 5)$
1.	Ph	aysical or logical arrangement of network is
1.		Topology (ii) Routing
		i) Networking (iv) Control
2.		the chance of collision can be reduced if a station senses the medium
		fore trying to use it. FDMA (ii) CDMA
		i) CSMA (iv) TDMA
3.		ooding broadcast packets create loops in the
		i) Systems (ii) Domains i) Group (iv) Station
1		
4.	(i)	DP expands User Data in process (ii) Unified Datagram process
	(ii	i) User Datagram protocol (iv) Unique development procedure
5.		Thich of the following is an example of user agents for e-mail?
) Microsoft Outlook (ii) Facebook (ii) Google (iv) Instagram
	(11	
		SECTION - B (15 Marks) Answer ALL Questions
		ALL Questions Carry EQUAL Marks $(5 \times 3 = 15)$
6	(2)	Compare OSI and TCP/IP models.
0.	(a)	OR
	(b)	Summarize the working procedure of Repeaters.
7.	(a)	Explain the ALOHA protocols.
	8.7	OR
	(b)	Outline the features of Multiplexing.
8.	(a)	State the importance of IPV6 protocols.
0.	(a)	OR
	(b)	Bring out the advantages of classless addressing.
0	(-)	Discuss shout the flow control in data link layer
9.	(a)	Discuss about the flow control in data link layer. OR
	(b)	Analyze the nature of socket programming.
10	(0)	Narrate the importance of IMAP in application layer.
10.	(a)	OR
	(b)	Describe the features of firewall.

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11. (a) Identify the various layers involved in OSI reference model.

OR

- (b) Elucidate the various transmission media involved in networks.
- 12. (a) Summarize the working principle of CSMA.

OR

- (b) Enumerate the Go Back N protocol in detail.
- 13. (a) Summarize the features of Dijikstra algorithm.

OR

- (b) Discuss about the Network address translation.
- 14. (a) Examine the design issues in protocols at different layers.

OR

- (b) Compare UDP with TCP in transport layer.
- 15. (a) Point out the significant characteristics of Domain Name System.

OR

(b) Highlight the importance of RSA algorithm.

Z-Z-Z END