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B.Tech. Degree VI Semester Special Supplementary Examination November 2022

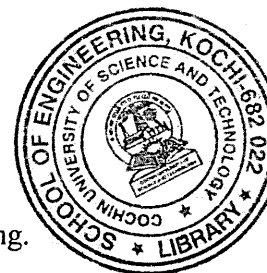
CS 19-202-0601 COMPUTER NETWORKS (2019 Scheme)

Time: 3 Hours

Maximum Marks: 60

Course Outcome

On successful completion of the course, the students will be able to:



- CO1: Familiarize with fundamental underlying principles of computer networking.
 CO2: Explain the details and functionality of layered network architecture.
 CO3: Apply mathematical foundations to solve computational problems in computer networking.
 CO4: Acquire knowledge in ethical, legal, security and social issues related to computer networking.
 Bloom's Taxonomy Levels (BL): L1 – Remember, L2 – Understand, L3 – Apply, L4 – Analyze, L5 – Evaluate, L6 – Create
 PO – Programme Outcome

PART A (Answer *ALL* questions)

		(8 × 3 = 24)	Marks	BL	CO	PO
I.	(a) List out the functions of FTP.		3	L1	4	1
	(b) Explain how DNS helps in address translation.		3	L1	4	1
	(c) Discuss Transport Layer Services. List out the services provided by the Transport Layer.		3	L2	2	1
	(d) Explain the UDP header with a diagram.		3	L1	2	2
	(e) Discuss about IP classful Addressing.		3	L2	1	3
	(f) Explain about Data Fragmentation in IP.		3	L1	2	2
	(g) Write notes on Data centre networking.		3	L2	4	3
	(h) What are channel partitioning protocols?		3	L2	4	3

PART B

(4 × 12 = 48)

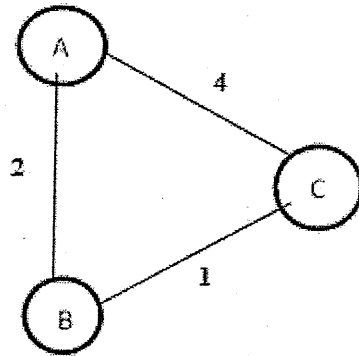
II.	Explain the working of:	12	L2	1	12
	(i) SMTP				
	(ii) Email				
	(iii) P2P file sharing.				
OR					
III.	Write notes on:	12	L2	1	12
	(i) HTTP				
	(ii) Socket Programming.				
IV.	Discuss TCP transition states on connection establishment and termination.	12	L1	2	2
OR					
V.	(a) Explain any two congestion control algorithms.	6	L1	2	1
	(b) Discuss about TCP timeout and retransmission.	6	L2	2	2
VI.	(a) Explain the IPV4 Header with a diagram.	5	L1	2	1
	(b) Consider Class C IP Address 195.1.1.0. Find out the subnet mask and first address of every subnet if we need 10 subnets of 12 hosts each.	7	L3	3	4

OR

(P.T.O.)

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- VII. (a) Explain briefly about BGP. Marks 5 BL L1 CO 2 PO 1
 (b) Implement Distance Vector Routing Algorithm in the following network and construct the routing table. 7 L3 3 4



- VIII. Explain about Multiple Access Protocols. 12 L1 4 1
 OR
 IX. (a) Write notes on VLAN. 6 L2 4 1
 (b) Discuss about Software Defined Networking. 6 L2 4 1

Bloom's Taxonomy Levels

L1 = 45%, L2 = 45%, L3 = 10%
