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## Model Question Paper with effect from 2024-25 (CBCS 2022-Scheme)

### Sixth Semester B.E. Degree Examination Computer Networks

Time: 03 Hours

Max. Marks: 100

**Note:** Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module - 1			Bloom's Taxonomy Level	Marks
Q. 1	a	With a neat diagram describe WAN using Virtual area Network.	L2	8
	b	What are the design issues for the Layers?	L2	6
	c	Write a note on OSI and TCP/IP reference model.	L2	6
<b>OR</b>				
Q. 2	a	Explain the construction and working of coaxial cable and Fiber Optic cables	L2,L3	10
	b	Brief on the various methods of Wireless Transmission	L2	10
<b>Module-2</b>				
Q. 3	a	Highlight the Data link layer design issues. Illustrate the relationship between packet and frames through diagram.	L2	8
	b	How the <b>Byte count</b> and <b>Flag byte with byte stuffing</b> are used for framing in data link layer.	L2	8
	c	What are error correction and error detection codes? List the Error correcting codes?	L2	4
<b>OR</b>				
Q. 4	a	Describe the algorithm of Cyclic Redundancy Codes (CRC) along with an example	L2,L3	10
	b	Illustrate the Protocol using Go-Back-N.	L2	10
<b>Module-3</b>				
Q. 5	a	What are Dynamic channel allocations for MAC sub layer? Describe Pure ALOHA protocol.	L2	8
	b	Interpret the token Ring Protocol	L3	6
	c	Distinguish between Datagram and virtual circuit network	L3	6
<b>OR</b>				
Q. 6	a	Specify the various approaches to Congestion Control.	L2,L3	10
	b	Discuss the leaky bucket and token bucket algorithms	L2	10
<b>Module-4</b>				
Q. 7	a	Explain the Transport Service Primitives.	L2	10
	b	Illustrate four protocol scenarios for releasing connection in Transport Layer	L2	10
<b>OR</b>				
Q. 8	a	How does the Barkely Socket work for TCP Give the Socket primitive for TCP.	L3	10
	b	Describe the User Datagram Protocol	L2	10
<b>Module-5</b>				
Q. 9	a	With neat diagram explain Network Application Architecture.	L2,L3	10

	b	Write the general format of an HTTP request message.	L2	10
<b>OR</b>				
Q. 10	a	What are the services offered by DNS explain.	L2	10
	b	Describe the scenario "clients requesting objects through a web cache".	L3	10

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