

2023/TDC (CBCS)/EVEN/ SEM/CSCHCC-401T/322

TDC (CBCS) Even Semester Exam., 2023

COMPUTER SCIENCE

(Honours)

(4th Semester)

Course No.: CSCHCC-401T

(Computer Network)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION—A will be not straw Si

Answer any ten of the following questions: $2\times10=20$

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- 1. Differentiate between half duplex and full duplex mode of communication.
- 2. What do you mean by physical address and logical address?

SECTION-B

3. Give two examples of unguin	aea	media.
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4. What are the two approaches of pocket switching?

- 5. Write full forms of ADSL, VDSL, HDSL and SDSL.
- 6. Differentiate between CATV and HFC.
- 7. What is Hamming distance?
- 8. What is piggybacking?
- 9. What is repeater?
- 10. Define IP address with example.
- 11. What are net-id and host-id?
- 12. Write the difference between static routing table and dynamic routing table.
- 13. Write any two uses of UDP.
- 14. What are the two ways a name space can be organized?
- 15. What is proxy server?

Answ	er ar	ny five of the following questions: 10×5=50)
16.	_	ain different types of physical topologies suitable diagram.	
17.	(a)	Discuss different types of transmission mode.	5
	(b)	Explain the classification of transmission media.	5
18.		lain in detail the Virtual Circuit Network its three phases.	
19.	(a)	Write a short note on dial-up modems.	5
	(b)	What are CM and CMTS? Discuss the data transmission scheme DOCSIS.	5
20.	(a)	Discuss the two types of errors.	3
	(b)	Explain error detection and error correction in block coding.	7
21.	(a)	Explain Go-back-N-ARQ protocol.	5
	(b)	Discuss backbone networks.	5



(4)

22.	(a)	A block of address is granted to a small organization having one of the addresses as 205.16.37.39/28.	
		(i) What is the first address in the block?	
		(ii) What is the last address in the block?	
		(iii) Find the number of addresses.	6
	(b)	Write a short note on IPv6 address.	4
23.	(a)	Explain Link-state routing.	5
	(b)	errors handled in Joseph	5
24.	(a)	Differentiate between UDP and TCP.	3
	(b)	Discuss the flags used in the control field of TCP.	5
	(c)	What is the length of user datagram and UDP header?	2
25.	(a)	What is an URL and what are its different components?	á
	(b) -	Explain HTTP transaction.	4
	(c)	Discuss the different types of domain. ***	3
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