QP CODE: 34323

Third Semester B.C.A.Degree Examination, March/April 2023 (CBCS NEP SCHEME)

(NBC 0230) Computer Communication and Networks

Time : 2 Hours Max. Max		Max. Marks: 60	
Instructions to students:			
1. The students should legibly write section number along with question numbers.			
2. The answers without section number and question numbers will not be valued.			
The question numbers should be legibly written within the margin only.			
SECTION - I			
I. Select the most appropriate answer from the options provided. (10x1=10)			
I-1. Following are the Applications of Computer Networks:			
a) E-Commerce b) CAD	c)	Email -	d) Both a and c
I-2. The abbreviation of MAN is:			
a) Metropolitan Area Network b) Media Access Network c) Medium Access Network d) None of the above			
I-3. One of the important reference model a) TCP b) OSI		wed in Computer Ne UDP	etworks is: d) None of the above
I-4. Which is the Guided Transmission media in the following? a) Twisted Pair b) Radio Waves c) Infrared d) Both a and b			
			,
I-5. End to End path must be established before communication in:			
-a) Circuit Switching b) Packet Switching	g c) t	oun a and o	d) None of the above
I-6. CRC stands for:			
a) Cyclic Redundancy Check	•	Cyclic Revision code	
c) Cyclic Redundancy Code	d)	None of the above	
I-7. Hamming code is an example for			
a) Error Detection	b)	Connection Establishment	
c) Connection Release	d)	None of the above	
I-8. Data link Layer Protocol is:			
a) TCP 🌼 b) Stop-and-Wa	it c)	UDP	d) IP
I-9. The process of path selection and packet forwarding in the Network is termed as:			
a) Routing	b)	Connection Establishment	
c) Decision making	d)	None of the above	•
I-10. The Transmission Layer protocols are:			
a) TCP and UDP	b)	Stop-and-Wait and	UDP
c) Simplex protocol and TCP	d)	Simplex and UDP	

Simplex protocol and TCP

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SECTION - II

(5x3=15)Answer/Write a short note on any FIVE of the following: II. Write a note on Applications of Computer Networks. II-1.

- Explain MAN in brief. 11-2.
- Write a note on Twisted pair cable. II-3.
- What is a Packet Switching? Explain. II-4.
- 11-5. Explain Hamming code.
- II-6. Mention 3 Routing algorithms.
- II-7. Write any 3 differences between TCP and UDP.
- List the services provided by Transport Layer? II-8.

SECTION - III

(3x5=15)Answer any THREE questions from the following: Ш.

- III-1. Explain LAN with a neat diagram.
- III-2. Explain briefly the TCP/IP model with a neat diagram.
- Explain Stop-and-Wait protocol. III-3.
- Explain the general principles of Congestion Control. III-4.
- III-5. Write the neat diagram of TCP header and briefly explain

SECTION - IV

IV. Answer the following:

(2x10=20)

IV-1. a) Explain OSI reference model in detail.

OR

- b) Explain Radio Waves and Microwave Transmission in detail.
- IV-2. a) Explain Distance Vector Routing Algorithm.

OR

b) Explain the architecture of Email and World Wide Web.

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