Max. Marks: 70

Code: 20A04603T

Time: 3 hours

## B.Tech III Year II Semester (R20) Regular Examinations August 2023

## **COMMUNICATION NETWORKS**

(Electronics & Communication Engineering)

PART – A (Compulsory Question)				
1	(b) (c) (d) (e) (f) (g) (h)	Answer the following: (10 X 02 = 20 Marks) What do you mean by protocol layering? What is topology? What is the significance of Data link layer? Write about stop and wait ARQ. What is need of multicast routing? What is token ring? Define the term IPv6 and its advantages. What is an addressing and routing? What is Domain Name System (DNS)? What is a peer to peer network?	2M 2M 2M 2M 2M 2M 2M 2M 2M 2M 2M	
PART – B (Answer all the questions: 05 X 10 = 50 Marks)				
2		Explain in detail about error detection and correction codes.  OR	10M	
3	(a) (b)		5M 5M	
4		Explain the following: (i) Sliding Window protocol. (ii) HDLC.	5M 5M	
5		OR Explain the details about the point -to- point Access.	10M	
6	(a) (b)	Explain various classes of IEEE 802.X Standard Ethernet. Explain the advantages of wireless LANS.  OR	5M 5M	
7	(a) (b)	What is the significance of Bridges? Explain the different types of Bridges. Explain the working of CSMA Protocol.	5M 5M	
8	(a) (b)	With an example explain the shortest path routing algorithms used in computer networks. What are the general principles of congestion control? Explain.  OR	5M 5M	
9	(a)	With an example explain the Flooding, Hierarchical routing algorithms used in computer networks.	5M	
	(b)	Explain about ICMP.	5M	
10	(a) (b)	Write short notes on the following: DNS. HTTP.	5M 5M	
11	(a) (b)	Write short notes on the following: UDP. WWW.	5M 5M	

**R20** 

Code: 20A04603T

## B.Tech III Year II Semester (R20) Supplementary Examinations January 2024

## **COMMUNICATION NETWORKS**

(Electronics & Communication Engineering)

Time:	Max. Marks: 70				
PART – A (Compulsory Question)					
1 (a) (b) (c) (d) (e) (f) (g) (h) (i) (j)	Answer the following: (10 X 02 = 20 Marks) What do you understand by Digital data transmission? Explain about DTE-DCE interface What is the importance of Sliding window Protocol? What is PPP Stack? What are repeaters? What is Token Bus? Explain about Subnet. What is the need for congestion control? Expand HTTP and WWW? Explain about Socket Interface?	2M 2M 2M 2M 2M 2M 2M 2M 2M 2M			
PART – B (Answer all the questions: 05 X 10 = 50 Marks)					
2 (a) (b)	•	5M 5M			
3	Discuss the layering principles of ISO - OSI model of Communication Networks	10M			
4	Explain the following :  (i) HDLC,  (ii) Flow and Error Control.  OR	10M			
5	Explain the following:  (i) Stop – and - Wait ARQ,  (ii) Go – Back – N ARQ.	10M			
6 (a) (b)	•	5M 5M			
7 (a) (b)		5M 5M			
8	Explain about Network layer Protocols.  OR	10M			
9	Explain about IP addressing.	10M			
10 (a) (b)		5M 5M			
11	Write short notes on the following: (i) DNS. (ii) FTP.	10M			

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