SET – 2

Code No.:20-CS-PC-224 | R20 | H.T.No. | | | R | 0 | | | | | |

CMR INSTITUTE OF TECHNOLOGY: HYDERABAD
UGC AUTONOMOUS
II–B.Tech. II–Semester I - Mid Term Examinations –APRIL – 2022
[COMPUTER NETWORKS]
(Common to CSE, CSM & CSD)

Date: 16-04-2022
[Max. Marks: 25]

Time: 90 Minutes]

Note:
1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B consists of 3 questions. Answer all 3 questions. Each question carries 5 marks and may have sub questions.
4. Illustrate your answers with NEAT sketches wherever necessary.

5 x 2M=10M

PART-A

S. No.		Question	BTL	CO	PO
1	a	List the different types of Topologies	1	1	1,2,12,13
	b	Difference between LAN and WAN	2	1	1,2,12,13
	c	Identify the uses of Bridge	2	2	1,2,12,13
	d	Sketch Co-axial cable and label the parts.	3	2	1,2,12,13
	e	Difference between MAC address and IP address	2	3	1,2,12,13

3 x 5M=15M

PART-B

S. No.	Question	BTL	CO	PO
2	Explain about guided transmission media at the physical layer.	2	1	1,2,12,13
	OR			
3	Discuss the functions/responsibilities of each layer in the ISO-OSI model.	2	1	1,2,12,13
4	Illustrate Selective Repeat sliding window protocol.	1	2	1,2,12,13
	OR			
5	Explain Bitmap and Binary countdown Protocol.	2	2	1,2,12,13
6	Summarize Fast Ethernet in detail.	2	2	1,2,12,13
	OR			
7	Explain the connectionless networks	2	3	1,2,12,13

SET - 2

Code No.: 20-CS-PC-226 | R20 | H.T.No. | | | R | 0 | | | | | |

CMR INSTITUTE OF TECHNOLOGY: HYDERABAD
UGC AUTONOMOUS
II–B.Tech. II–Semester-II - Mid Term Examinations – Jun' – 2022
COMPUTER NETWORKS
(CSE,CSE(DS) & CSE(AI&ML))

[Time: 90 Minutes] **[Max. Marks: 25]**

Note:
1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
3. Part B consists of 3 questions. Answer all 3 questions. Each question carries 5 marks and may have sub questions.
4. Illustrate your answers with NEAT sketches wherever necessary.

PART-A

5 x 2M=10M

S. No.		Question	BTL	CO	PO
1	a	Explain Count to Infinity Problem	1	3	1,2,3
	b	Define Flooding	1	4	1,2,3
	c	Explain Routing	2	4	1,2,3
	d	Illustrate Three Way Handshaking Procedure in TCP	2	5	1,2,3
	e	Define Client/server paradigm	1	5	1,2,3

PART-B

3 x 5M=15M

S. No.	Question	BTL	CO	PO
2	Demonstrate Distance Vector Routing Algorithm with example.	2	3	1,2,3
	OR			
3	Explain Leaky Bucket Algorithm with Example	2	3	1,2,3
4	Describe Different Services provided by Transport Layer	2	4	1,2,3
	OR			
5	Illustrate IPV6 Format in detail	2	4	1,2,3
6	Discuss working procedure of E-Mail	2	5	1,2,3
	OR			
7	Explain TCP Congestion Policy Mechanism	2	5	1,2,3

Code No.: 22CSPC42	R22	H.T.No.	2	2	R	0	1	A	0	5	4	5

CMR INSTITUTE OF TECHNOLOGY: HYDERABAD
UGC AUTONOMOUS
B.Tech. IV – Semester- I - Mid Term Examinations – April – 2024
Computer Networks
(Common to CSE/CSE(AI&ML)/CSE(DS)/AI&ML/CSE(CS))

[Time: 120 Minutes] **[Max. Marks: 30]**

Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 5 marks. Answer all questions in Part A.
3. Part B consists of 5 questions. Answer all 5 questions. Each question carries5 marks
4. Illustrate your answers with NEAT sketches wherever necessary.

PART-A **5 x 1M=5M**

S.No		Question	BTL	CO	PO
1	a	Define: Protocol and standards.	1	1	1,2,12,13
	b	List out the seven layers of OSI Reference Model.	1	1	1,2,12,13
	c	Differentiate between pure ALOHA and Slotted ALOH.	2	2	1,2,12,13
	d	Draw Ethernet Frame Format.	1	2	1,2,12,13
	e	What are the different functions of Network Layer?	1	3	1,2,12,13

PART-B **5 x 5M=25M**

S.No	Question	BTL	CO	PO
2	Sketch OSI Reference Model and Explain.	2	1	1,2,12,13
	OR			
3	Demonstrate CRC Error detection technique using example.	2	1	1,2,12,13
4	Differentiate between Guided and Unguided Transmission Media.	2	1	1,2,12,1
	OR			
5	Compare between Go-back-N and Selective Repeat Protocol.	2	1	1,2,12,1
6	Explain the methods in CSMA.	2	2	1,2,12,1
	OR			
7	Illustrate about Standard Ethernet in detail.	2	2	1,2,12,1
8	Differentiate between Repeater and Hub.	2	2	1,2,12,1
	OR			
9	Explain about MAC Protocol in detail.	2	2	1,2,12,1
10	Illustrate about the design issues in Network Layer.	2	3	1,2,12,1
	OR			
11	Differentiate between Connectionless and Connection-Oriented Networks.	2	3	1,2,12,1

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