

**CMR TECHNICAL CAMPUS
UGC AUTONOMOUS**

B. Tech. V Semester Regular End Examinations, Dec-2022

Computer Networks

Common to CSE, IT, CSM & CSD

Time: 3 Hours

Max. Marks: 70

Note

- i. This Question paper contains Part- A and Part- B.
- ii. All the Questions in Part A are to be answered compulsorily.
- iii. All Questions from Part B are to be answered with internal choice among them.

PART-A

10 X 02 = 20 Marks

		Marks	CO	BL
1.	a	2	CO1	L1
	b	2	CO1	L1
	c	2	CO2	L2
	d	2	CO2	L1
	e	2	CO3	L1
	f	2	CO3	L1
	g	2	CO4	L1
	h	2	CO4	L1
	i	2	CO5	L1
	j	2	CO5	L1

PART- B

5 X 10 = 50 Marks

		Marks	CO	BL
2.	Explain in detail about TCP/IP Protocol suite with neat diagram.	10	CO1	L2
	OR			
3	a	5	CO1	L3
	b	5	CO1	L2
4	a	5	CO2	L5
	b	5	CO2	L2
	OR			
5	a	5	CO2	L2
	b	5	CO2	L3
6	a	5	CO3	L2
	b	5	CO3	L2

algorithms.

OR

- | | | | | | |
|----|---|---|----|-----|----|
| 7 | a | Describe about open loop in congestion control Algorithm. | 5 | CO3 | |
| | b | Explain Flooding technique. | 5 | CO3 | |
| OR | | | | | |
| 8 | a | Explain the services provided by transport layer to upper layers. | 5 | CO4 | L2 |
| | b | With the help of a diagram explain the IPv4 header format. | 5 | CO4 | L2 |
| OR | | | | | |
| 9 | | With the help of diagrams, explain the three-way handshake methods of TCP connection establishment and release. | 10 | CO4 | L3 |
| OR | | | | | |
| 10 | a | Discuss the working principle behind DNS? | 5 | CO5 | L2 |
| | b | Summarize the request message format in HTTP. | 5 | CO5 | L2 |
| OR | | | | | |
| 11 | a | What are the functions of user agent, message transfer agent and message access agent in e-mail system. | 5 | CO5 | L2 |
| | b | Explain SNMP Protocol with a neat diagram. | 5 | CO5 | L2 |

CO : Course Outcomes**BL : Bloom's Taxonomy Levels**
L 1: Remembering
L 3: Applying
L 5: EvaluatingL 2: Understanding
L 4: Analysing
L 6: Creating

Subject Code: 20CS502PC

SET-I

HT NO: 207R2A66D9

**CMR TECHNICAL CAMPUS
UGC AUTONOMOUS**

**B. Tech. V Semester Regular End Examinations, Dec-2022
Computer Networks
Common to CSE, IT, CSM & CSD**

Time: 3 Hours

Max. Marks: 70

Note

- i. This Question paper contains Part- A and Part- B.
- ii. All the Questions in Part A are to be answered compulsorily.
- iii. All Questions from Part B are to be answered with internal choice among them.

PART-A

10 X 02 = 20 Marks

	Marks	CO	BL
1. a Define computer network. What are its advantages?	2	CO1	L1
b Write various services provided by session layer of OSI model.	2	CO1	L1
c Classify various Data Link Layer Services.	2	CO2	L2
d Define Bit stuffing.	2	CO2	L1
e What is Congestion control.	2	CO3	L1
f Write are the different parameters for measuring quality of service?	2	CO3	L1
g Define IP address and port number.	2	CO4	L1
h What are the fields that are present in the UDP header?	2	CO4	L1
i List the protocols used in Application Layer.	2	CO5	L1
j What is POP in an email system?	2	CO5	L1

PART-B

5 X 10 = 50 Marks

	Marks	CO	BL
2. Explain in detail about TCP/IP Protocol suite with neat diagram.	10	CO1	L2
OR			
3. a Discuss in detail about Fiber optics guided media for transmission.	5	CO1	L3
b Write short notes on Radio Transmission.	5	CO1	L2
c Given the generator polynomial x^3+1 and data polynomial x^4+1 . Test the error if any using CRC method.	5	CO2	L5
d Describe the design procedure for Stop-and-Wait protocol.	5	CO2	L2
OR			
e Explain in detail Go-Back-N sliding window protocol.	5	CO2	L2
f Describe in detail Stop-and-Wait protocol.	5	CO2	L2
g Explain in detail Stop-and-Wait protocol with an example.	5	CO2	L2
h Explain in detail Stop-and-Wait protocol with an example.	5	CO2	L2

7/2

- algorithms.
- OR
- | | | | | | |
|----|---|---|----|-----|----|
| 7 | a | Describe about open loop in congestion control Algorithm. | 5 | CO3 | L2 |
| | b | Explain Flooding technique. | 5 | CO3 | L2 |
| 8 | a | Explain the services provided by transport layer to upper layers. | 5 | CO4 | L2 |
| | b | With the help of a diagram explain the IPv4 header format. | 5 | CO4 | L2 |
| OR | | | | | |
| 9 | | With the help of diagrams, explain the three-way handshake methods of TCP connection establishment and release. | 10 | CO4 | L3 |
| 10 | a | Discuss the working principle behind DNS? | 5 | CO5 | L2 |
| | b | Summarize the request message format in HTTP. | 5 | CO5 | L2 |
| OR | | | | | |
| 11 | a | What are the functions of user agent, message transfer agent and message access agent in e-mail system. | 5 | CO5 | L2 |
| | b | Explain SNMP Protocol with a neat diagram. | 5 | CO5 | L2 |

CO : Course Outcomes

BL : Bloom's Taxonomy Levels
 L 1: Remembering
 L 3: Applying
 L 5: Evaluating

L 2: Understanding
 L 4: Analysing
 L 6: Creating
