

Code No: **R17A0514****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech I Semester Regular Examinations, December 2019****Computer Networks****(CSE & IT)**

<b>Roll No</b>										
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**Time: 3 hours****Max. Marks: 70**

**Note:** This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing **ONE** Question from each SECTION and each Question carries 14 marks.

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**MODEL PAPER-I****SECTION-I**

1. Explain ISO-OSI Reference Model with neat sketch [14M]  
(OR)

2. Explain different kinds of Transmission Media.

**SECTION-II**

3. Explain CSMA and CSMA/CD in detail. [14M]

(OR)

4.(a) Explain Data Link Layer Switching.

(b) Explain Collision Free Protocols.

**SECTION-III**

5. Explain Dynamic Routing algorithms. [14M]

(OR)

6. Explain Congestion Control algorithms.

**SECTION-IV**

7.(a) Explain IPV4 header format. [14M]

(b) Explain DHCP.

(OR)

8.(a) Explain Transport Layer Services.

(b) Explain Crash Recovery.

**SECTION-V**

9.(a) Explain UDP header format. [14M]

(b) Explain TCP Connection management modeling.

(OR)

10. Explain the following

(a) FTP (b) TELNET (c) DNS

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**MODEL PAPER-II****SECTION-I**

1. Explain TCP/IP Model with neat sketch [14M]  
(OR)

2. Explain about Unguided Transmission Media.

**SECTION-II**

3. Explain Pure and Slotted ALOHA in detail. [14M]  
(OR)

4.(a) Explain Sliding window Protocol.

(b) Explain Spanning tree bridges.

**SECTION-III**

5. Explain Shortest Path Routing algorithm and Flooding. [14M]  
(OR)

6. Explain Congestion Prevention Policies.

**SECTION-IV**

7.(a) Explain IPV6 header format. [14M]  
(b) Explain ARP and RARP.

(OR)

8.(a) Explain Transport layer Connection Establishment and Connection Release.

(b) Explain Transport protocol addressing.

**SECTION-V**

9.(a) Explain TCP header format. [14M]  
(b) Explain TCP Congestion Control.

(OR)

10. Explain the following

(a) SMTP

(b) HTTP

(c) DNS

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**MODEL PAPER-III****SECTION-I**

1. Comparison between OSI Reference Model and TCP/IP Reference Model . [14M]  
(OR)
2. Explain about Switching Techniques.

**SECTION-II**

- 3.(a) Explain Error detection using CRC for the following: [14M]  
Consider a message 110010 represented by the polynomial  $M(x)=x^5+x^4+x$   
and a generating polynomial  $G(x)=x^3+x^2+1(1101)$ .  
(b) Explain Sliding window Protocol.

(OR)

4. Explain Ethernet physical and MAC sublayer and Ethernet types.

**SECTION-III**

- 5.(a) Describe Classification of IP addresses and explain CIDR. [14M]  
(b) Write short notes on Packet Fragmentation.

(OR)

6. Explain Leaky bucket and Token bucket algorithms.

**SECTION-IV**

- 7.(a) Write notes on transport layer services. [14M]  
(b) Describe about transport layer addressing.

(OR)

8. Explain Transport layer Connection Establishment and Connection Release.

**SECTION-V**

- 9.(a) Explain RSA Algorithm. [14M]  
(b) Explain Two-way Handshake and Three-way Handshake methods.

(OR)

10. Explain the following

(a) SMTP (b) HTTP (c) DNS (d) E-Mail (e) TELNET

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**MODEL PAPER-IV****SECTION-I**

1. Compare OSI Reference Model and TCP/IP Model . [14M]  
(OR)

2. Explain Guided Transmission Media.

**SECTION-II**

3.(a) Explain CRC Error detection method with Example. [14M]

(b) Explain various ALOHA Protocols.

(OR)

4.(a) Explain Fast Ethernet and Gigabit Ethernet.

(b) Explain the Following:

(a) Switch (b) Hub (c) Modem (d) Bridge (e) Router

**SECTION-III**

5.(a) Explain Shortest path routing. [14M]

(b) Explain Count-to-Infinity Problem.

(OR)

6. Explain the following Protocols:

(a) RARP (b) DHCP

**SECTION-IV**

7.(a) Explain TCP Segment header. [14M]

(b) Explain TCP Congestion Control .

(OR)

8. Explain Transport layer Connection Establishment and Connection Release.

**SECTION-V**

9.(a) Explain RSA Algorithm. [14M]

(b) Explain Application Layer Paradigms.

(OR)

10. Explain the following

(a) WWW (b) HTTP (c) DNS (d) E-Mail (e) TELNET

