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<b>Question Paper Code : 80390</b>
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B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2021.

Sixth Semester

Electrical and Electronics Engineering

CS 2363/CS 65/10144 CS 503 – COMPUTER NETWORKS

(Regulations 2008/2010)

(Common to PTCS 2363 – Computer Networks for B.E. (Part-Time) Fifth Semester  
Electrical and Electronics Engineering – Regulations 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define the term Ethernet. Mention its types.
2. What is the purpose of second Ring in FDDI protocol?
3. What is the purpose of ARP? Is it always necessary?
4. Define CIDR. Give its importance.
5. List any four QoS parameters.
6. Differentiate flow control from congestion control.
7. Define cryptography.
8. What is PGP?
9. Define HTML.
10. State why telnet uses network virtual terminal.

PART B — (5 × 16 = 80 marks)

11. (a) (i) Discuss about the architecture of computer network with sketches. (8)  
(ii) Explain the IEEE 802.3 standard. (8)

Or

- (b) Explain the different approaches of Framing and Encoding in detail. (16)

12. (a) Write short notes on :  
(i) TCP/IP protocol (4)  
(ii) Network model (4)  
(iii) Datagram network (4)  
(iv) Virtual circuit network. (4)

Or

- (b) Perform a comparative study between the ISO-OSI model and TCP/IP reference model. (16)

13. (a) (i) Discuss about the UDP with necessary diagram. (8)  
(ii) Describe the TCP connection establishment and termination. (8)

Or

- (b) Explain the different channel allocation mechanisms used in TCP congestion avoidance. (16)

14. (a) Explain about Data Compression techniques along with examples and Types. (16)

Or

- (b) Explain the following with diagrams :  
(i) SSH Protocol. (8)  
(ii) IP security. (8)

15. (a) Explain in detail the SNMP model with relevant diagrams. (16)

Or

- (b) Discuss the applications of multimedia in audio and video. (16)