Reg. No.

Question Paper Code : **51395**

B.E./B. Tech. DEGREE EXAMINATION, MAY/JUNE 2016

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) Sixth Semester
Electrical and Electronics Engineering – Regulations 2009)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Why the network architecture is designed as a layered model ?

2. Which layer is responsible for error detection ? Give any two methods.

3. What is the purpose of ARP ? Is it always necessary ?

4. Define CIDR. Give its importance.

5. What do mean by Silly Window Syndrome ?

6. What is weighted fair queuing ?

7. List down the steps carried on to compress a image into JPEG format.

8. Does the firewall assure you with complete security ? Comment.

9. How do host names differ form host addresses ?

10. Give the format of request procedures of HTTP.

1   **51395**

PART – B (5 × 16 = 80 Marks)

11. (a) (i) Explain the OSI network architecture with neat diagram. **(10)**

       (ii) Write a note on virtual circuit switching. **(6)**

OR

     (b) (i) Describe the frame structure used in FDDI and its channel allocation scheme with an example. **(10)**

       (ii) Compare Wi-Fi and WiMAX Technologies. **(6)**

12. (a) (i) Explain the Dynamic Host Configuration Protocol. **(6)**

       (ii) Describe the working of OSPF (link state routing) with an example. **(10)**

OR

     (b) (i) Explain the subnet addressing with an example. **(8)**

       (ii) Give the Header format of IPv6 and explain. **(8)**

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) (i) Explain the JPEG image compression with block diagram. **(12)**

       (ii) Write a note on MP3 audio compression. **(4)**

OR

     (b) (i) How are pre-distribution keys distributed ? Explain. **(8)**

       (ii) Describe the protocols used for transport layer security. **(8)**

15. (a) (i) Discuss the working of IMAP in e-mail services. **(8)**

       (ii) Describe the HTTP request and response operations. **(8)**

OR

     (b) (i) Explain the File Transfer Protocol with connections, communication and commands. **(12)**

       (ii) Write a note on SNMP. **(4)**

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