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**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.

**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)