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Question Paper Code : 23393

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018

Sixth Semester

Electrical and Electronics Engineering

CS 2363 — COMPUTER NETWORKS

(Regulations 2008)

(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. Define bandwidth and latency.
2. Outline the functions performed by a bridge.
3. What is an IPv4 address? Give example.
4. Define ARP.
5. What is the difference between TCP and UDP?
6. What is flow control?
7. Compare and contrast symmetric and asymmetric cryptography.
8. What is a firewall?
9. Define an overlay network.
10. What is FTP? Write down its significances.

PART B — (5 × 16 = 80 marks)

11. (a) Appraise with a diagram the layers in the open systems interconnection reference model. (16)

Or

- (b) Write a detailed note on Ethernet and fiber distributed data interface. (16)

12. (a) Explain with an example the working of address resolution protocol and reverse address resolution protocol. (16)

Or

- (b) (i) Write a note on dynamic host configuration protocol and Internet control message protocol. (8)

- (ii) What is subnetting? Explain the various classes of IP addressing. (8)

13. (a) Explain the structure of TCP header with a neat diagram and connection establishment and connection release in TCP. (16)

Or

- (b) What is congestion? Explain with an example any two congestion avoidance mechanisms. (16)

14. (a) What is data compression? Outline the difference between lossy and lossless compression. Compare JPEG and MPEG compression standards. (16)

Or

- (b) Write a note on the following:

- (i) Pretty Good Privacy. (8)

- (ii) Secure Socket Shell. (8)

15. (a) What is a domain name system? Explain with an example the domain name system structure and hierarchy. (16)

Or

- (b) What is simple network management protocol? Appraise how simple network management protocol can be used for managing devices in an Internet using the TCP/IP protocol suite. (16)