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Question Paper Code : 52389

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Sixth Semester

Electrical and Electronics Engineering

CS2363 – COMPUTER NETWORKS

(Regulations 2008)

[Common to PTCS2363 – Computer Networks for B.E. (Part-Time)

Sixth Semester – EEE – Regulations 2009]

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. List the parameters used to measure the network performance.
2. What is meant by error detection ?
3. Mention the function of ICMP.
4. Define the term CIDR.
5. What is congestion control ? List the techniques used for congestion control.
6. What is connectionless service ? Give example.
7. What is the need of data compression ?
8. What is firewall ? Mention the various types of firewalls ?
9. Mention some multimedia applications and its bandwidth requirement.
10. State the uses of TELNET.

PART – B

(5×16=80 Marks)

11. a) Explain in detail about the OSI architecture with illustration of a neat diagram. (16)
(OR)
- b) i) What is an Ethernet ? Explain the frame structure of IEEE 8023. (8)
- ii) Explain about CRC error detection mechanism with an example. (8)



12. a) Explain about ARP mechanism in detail. (16)
(OR)
- b) i) Discuss in detail about IPv6 with the help of diagram. (12)
ii) Write notes on RARP mechanism. (4)
13. a) Explain elaborately about TCP connection establishment, termination and state transition protocol with the help of a diagram. (16)
(OR)
- b) i) What is meant by congestion avoidance mechanism ? Discuss about Random Early Detection algorithm in detail. Mention its merits and demerits. (12)
ii) What are the types of queuing disciplines ? Write brief notes on it. (4)
14. a) Explain in detail about Secret Key Generation (DES) with the help of a diagram. Mention its merits, demerits and applications. (16)
(OR)
- b) i) Define PGP. Discuss about PGP message integrity and authentication, message encryption with the help of a diagram. (8)
ii) What is a SSH ? Discuss in detail about the three protocols of SSH. (8)
15. a) Discuss in detail about Domain Name Server with illustration of examples. (16)
(OR)
- b) Write notes on :
- i) Real-time transport protocol. (8)
ii) Simple Network Management Protocol. (4)
iii) File Transfer Protocol. (4)
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