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**Question Paper Code : 42382**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018

Fifth Semester

Computer Science and Engineering  
CS 2302 – COMPUTER NETWORKS  
(Common to Information Technology)

(Regulations 2008)

(Also Common to PTCS 2302 – Computer Networks for B.E. (Part-Time) Fourth Semester CSE – Regulations 2009)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. What are the responsibilities of data link layer ?
2. Define checksum.
3. Differentiate bridges and switches.
4. How does an FDDI node determine whether it can send asynchronous traffic and synchronous traffic ?
5. Write the example of connection oriented and connectionless protocol.
6. Draw the structure of IPV6.
7. List out the Quality Of Service (QOS) parameters.
8. What is silly window syndrome ?
9. Draw the header format of HTTP.
10. What are the security issues present in the network ?

PART – B

(5×16=80 Marks)

11. a) Discuss the issues and functionality of the data link layer. (16)
- (OR)
- b) Explain in detail about Error Correction and Detection with suitable example. (16)



12. a) Discuss the design procedure to build wireless LAN network using bridges and switches. (16)
- (OR)
- b) Explain the concepts of FDDI with suitable example. (16)
13. a) Explain in detail about routing algorithms with suitable example. (16)
- (OR)
- b) Briefly discuss about the congestion avoidance in network layer. (16)
14. a) Discuss the Random Early Detection mechanism and derive the expression for drop probability. (16)
- (OR)
- b) Write the short notes on Adaptive Flow Control and Adaptive Retransmission. (16)
15. a) Explain in detail about the Pretty Good Privacy (PGP). (16)
- (OR)
- b) i) Explain FTP in detail. (8)
- ii) Write the advantages of SMTP and POP3. (8)
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