

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.Sc. DEGREE EXAMINATION – COMPUTER SCIENCE

FIRST SEMESTER – NOVEMBER 2019

PCS 1505 – ADVANCED COMPUTER NETWORKS

Date: 09-11-2019

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

Part – A

Answer All the Questions

(10X2=20)

1. What is internetwork?
2. Differentiate connection oriented and connection less service.
3. What are the advantage of using twisted pair in transmission?
4. What is even parity?
5. What is forwarding?
6. Define admission control.
7. What are the responsibilities of transport protocols?
8. What is directory server?
9. What is direct beam IR?
10. What are ad hoc networks?

Part – B

Answer All the Questions

(5X8=40)

11. a) Compare services with protocols.
(OR)
b) What are wireless networks? Mention the categories of wireless networks.
12. a) Mention the construction and the characteristics of coaxial cable.
(OR)
b) Explain cyclic redundancy check with polynomial x^3+x+1 data 1001.
13. a) Compare virtual circuit and datagram subnets.
(OR)
b) Explain Dijkstra's algorithm to find the single source shortlist path of a graph.
14. a) Compare upward multiplexing and downward multiplexing.
(OR)
b) Explain crash recovery in transport layer protocols.
15. a) Write down the WLAN network configurations.
(OR)
b) Explain Bluetooth protocol stack.

Part – C

Answer Any Two Questions

(2X20=40)

16. i) Explain OSI reference model and the responsibilities of each layers.

ii) Explain error detecting codes.

17. i) Explain link -state routing algorithm with an example.

ii) Explain connection establishment and connection release in transport layer.

18. i) Explain WLAN services and configurations.

ii) Write down the design issues of data link layer.

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