

18P270

(Pages: 2)

Name:.....

Reg. No:.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2019

(Regular/Improvement/Supplementary)

(CUCSS-PG)

CC17P CSS2 C03 - COMPUTER NETWORKS

(Computer Science)

(2017 Admission onwards)

Time: Three Hours

Maximum: 36 Weightage

PART A

Answer *all* questions. Each question carries 1 weightage.

1. What do you mean by Topology?
2. Draw the architecture of a router.
3. Define Content Distribution.
4. What is a Web Server?
5. What do you mean by PPP?
6. What are the properties of a secure Communication?
7. What is Client Server Architecture?
8. What is Mobility?
9. Explain different categories of Networks.
10. List the functions of Transport Layer.
11. What is the use of ARP?
12. What are the different kinds of attacks in a computer network?

(12 × 1 =12 Weightage)

PART B

Answer any *six* questions. Each question carries 2 weightages.

13. What is IP datagram fragmentation and Reassembly?
14. Explain persistent and non-persistent connection in HTTP.
15. Explain how congestion control is achieved.
16. What do you mean by layered approach? Briefly explain the layers in OSI Model.
17. Write a short note on DNS.
18. Briefly explain Socket Programming.
19. Explain:
 - a) Hubs.
 - b) Switches.
 - c) Bridges.

20. Briefly explain the role of Firewalls in Computer Security.
21. Explain RSA algorithm.

(6 × 2 = 12 Weightage)

PART C

Answer any *three* questions. Each question carries 4 weightages.

22. Explain the various error detection and correction mechanism used in Computer networks.
23. Discuss in detail about the transmission media.
24. Give an overview of the working of email system over internet. Explain the various protocols used in the email system.
25. Briefly Explain the following:
 - a) Selective Repeat Protocol.
 - b) IPV4
26. Distinguish between TCP and UDP.
27. Write a note on the term Digital Signature.

(3 × 4 = 12 Weightage)
