C 63037

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Name....................................

Reg. No...............................

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2019

(CUCSS)

Computer Science

CSS 2C 03—COMPUTER NETWORKS

(2014 Admissions)

Time : **Three Hours**

Maximum : 36 Weightage

Part A

Answer **all** *questions.*

Each *question carries 1 weightage.*

1. **What are the different** types of networks ?

2. **Define Protocol.**

3. **What is DNS ?**

4. **List the** advantages of optical fibre.

5. **Explain** FTP.

6. **Diff**erentiate between packet switching and circuit switching.

7. **What do you mean by congestion control ?**

8. **Explain the functions of switches.**

9. **Define Checksum.**

10. **Define ARQ.**

11. **What is Snooping ?**

12. **Explain the role of firewalls in computer networks.**

(12 × 1 = 12 weightage)

Part B

Answer any **six** *questions.*

Each question carries 2 weightage.

13. **What are the different types of network topologies ? Explain.**

14. **Explain the basic model of FTP.**

15. **Write a short note on Bridges.**

16. **Differentiate between TCP and UDP.**

17. **Write a short note on Wireless network.**

18. **Give a brief account on different transmission media.**

19. Explain about any *two* domains in Domain Name System.

20. Explain the principles of security in Computer Networks.

21. What are the different types of attack in computer network ? Explain.

(6 × 2 = 12 weightage)

Part C

Answer any **three** *questions.*

Each question carries 4 weightage.

22. Describe with neat diagram the functionalities of each layer in the ISO-OSI reference model.

23. Write a socket program to copy a file from one machine to another in a computer network.

24. What is an IP address ? Explain the different classes of IP addresses.

25. Explain any two – error detection and error correction mechanisms.

26. Explain TCP congestion control mechanism in detail.

27. What is cryptography ? Explain public and private key to be used for cryptography mechanism.

(3 × 4 = 12 weightage)