

C 4718

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Name.....

Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2016

(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 is a client server model ?
2. What is Internet ? How it differ from **intranet** ?
3. Explain packet switching.
4. What is **TCP** ?
5. What are the different types of port numbers ?
6. What is ARP ?
7. What is CRC ?
8. What are the different components of E-mail system ?
9. What is **IPv6** ?
10. What is Web caching ?
11. Explain the function of a router.
12. What do you mean by cryptography ?

(12 x 1 = 12 weightage)

Part B

*Answer any **six** questions.*

Each question carries 2 weightage.

13. What are the different layers in TCP/IP model ? List the functions of each layer.

Turn over

14. What is DNS ? Explain the structure and functions of DNS.
15. Explain the components of **TCP** segment structure.
16. Explain the different approaches to congestion control.
17. Give an account on ALOHA and slotted ALOHA.
18. Explain the generation of digital signature with example.
19. Write a note on ATM physical Layer.
20. Distinguish between connection-oriented and **connectionless** services.
21. What is web server ? **Explain the procedure for building a web server.**

(6 x 2 = 12 weightage)

Part C

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

22. What are the different network **models** ? **Also list out different topologies in** networking system.
23. Give an account on guided media.
24. Write a socket program to transfer a file from one system in a network to another system using UDP protocol.
25. Explain Distance Vector Routing Algorithm.
26. Explain the functions of Bridges **and Switches**.
27. Explain the basic operations of **DES and AES**.

(3 x 4 = 12 weightage)