

C 30905

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Name.....

Reg. No.....

**FIFTH SEMESTER B.C.A. DEGREE (SUPPLEMENTARY) EXAMINATION
NOVEMBER 2017**

(UG—CCSS)

CA 5B 09—COMPUTER NETWORKS

Time : Three Hours

Maximum : 30 Weightage

I. Answer all *twelve* questions :

- 1 _____ is the packet-switched network funded by ARPA.
- 2 Number of links to connect n nodes in a mesh topology is _____.
- 3 _____ is the difference between the highest and the lowest frequencies of a composite signal.
- 4 Error control is the responsibility of _____ layer.
- 5 The independent data unit in a packet switched network is called a _____.
- 6 Token bus was standardized by IEEE standard _____.
- 7 _____ is abbreviated as LLC.
- 8 10Base2 implementation of Ethernet is also called as _____.
- 9 _____ is a packet sent by a router to the source to inform it of congestion.
- 10 SMTP stands for _____.
- 11 A device installed between the internal network of an organization and the rest of the Internet to provide security is called _____.
- 12 _____ is abbreviated as MIME.

(12 × ¼ = 3 weightage)

II. Answer all *nine* questions :

- 13 Explain Star topology.
- 14 What is MAN ?
- 15 List the functions performed by the physical layer of 802.3 standards ?
- 16 What is FDDI ?
- 17 What is the use of bridges in networking ?
- 18 What is UDP ?

Turn over

- 19 What is HTTP ?
- 20 What is public key and private key in network security.
- 21 What is DES ?

(9 × 1 = 9 weightage)

III. Answer *five* questions from seven :

- 22 Write a note on session layer of OSI model.
- 23 Write a note on twisted pair wires.
- 24 Differentiate between pure-ALOHA and slotted- ALOHA.
- 25 Explain CSMA/CD protocol in detail.
- 26 Explain the shortest path routing algorithm.
- 27 Differentiate between TCP and UDP.
- 28 Explain the different security services.

(5 × 2 = 10 weightage)

IV. Answer *two* questions from three :

- 29 Explain the different kinds of switching techniques.
- 30 Explain in detail IEEE 802.4 and IEEE 802.5.
- 31 Define cryptography. Explain the various ciphers used in asymmetric key cryptography.

(2 × 4 = 8 weightage)