CS-68

BACHELOR OF COMPUTER APPLICATIONS (BCA) (Pre-Revised)

Term-End Examination

February, 2021

CS-68 : COMPUTER NETWORKS

Time : 2 hours   *Maximum Marks : 60*

Note : *Question number **1** is **compulsory**. Attempt any **three** questions from the rest.*

1. (a) Explain any three services provided by Data Link Layer. *6*

    (b) What is an Electronic Mail ? List any six features of electronic mail. *4*

    (c) Explain the format of TCP header. *5*

    (d) What is a Bridge ? Briefly explain bridging methodologies. *5*

    (e) What is a Router ? On which layer of OSI model does it operate ? Explain Routing addressing scheme. *5*

    (f) List and explain any three ATM classes of services along with their corresponding quality of service parameters. *5*

2. (a) What is a Gateway ? How does X·25 Gateway link hosts and LANs ? Explain briefly. *5*

(b) What is TCP Reference Model ? Briefly explain TCP/IP network architecture. *5*

3. (a) What is multiplexing ? Explain Time Division Multiplexing (TDM) with the help of an example. *5*

(b) Compare and contrast 'Virtual Circuit' with 'Datagram Subnet'. *5*

4. (a) What is FTP ? Explain its uses. How is TELNET different from FTP ? *5*

(b) What is MAN ? How is it different from LAN ? *5*

5. Write short notes on the following : $4 \times 2\frac{1}{2} = 10$

(a) Quality of Service and Networks

(b) Applications of ISDN

(c) ATM Traffic Control

(d) Firewall

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