WEST BENGAL STATE UNIVERSITY
B.Sc. Programme 6th Semester Examination, 2022

CMSGDSE04T-COMPUTER SCIENCE (DSE2)

COMPUTER NETWORK

Time Allotted: 2 Hours   Full Marks: 50

The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.

GROUP-A

1. Answer any *five* questions from the following: 2×5 = 10

   (a) What do you mean by Network Protocol?

   (b) Differentiate between HTTP and HTTPS.

   (c) What is SMTP Protocol?

   (d) Explain FTP.

   (e) Describe VPN.

   (f) Differentiate between Ring Topology and Bus Topology.

   (g) What is Firewall?

   (h) What is a Node?

GROUP-B

Answer any *five* questions from the following   8×5 = 40

2. (a) What are the different layers used in TCP/IP model? Explain each of them.   1+5

   (b) Differentiate between physical address and logical address.   2

3. (a) Define Topology. Explain Bus and Ring topology with example.   4+4

   (b) Compare and contrast Hubs and switches.

4. (a) Define ASK and FSK.   2+2

   (b) Differentiate between AM and FM.   4

5. (a) Distinguish between connectionless and connection oriented protocols.   4+4

   (b) Write short note on microwave transmission.

6. (a) What are the three domains of the Domain Name System? Explain briefly about any one of them.   1+3

   (b) Write notes on circuit switching and packet switching.   4

7. (a) Differentiate between UDP and TCP.   4+4

   (b) Explain the importance of browser in internet.

8.   Write short notes on any *two* of the following: 4+4

   (a) IP address

   (b) URL

   (c) WWW

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within* 1 *hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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