



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

MSGDSE04T-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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