WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 3rd Semester Examination, 2021-22

CMSACOR07T-COMPUTER SCIENCE (CC7)

COMPUTER NETWORK

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.
Candidates should answer in their own words as far as practicable
All symbols are of usual significance.

GROUP-A

1.   Answer any *four* questions from the following: 2×4 = 8

   (a) What do you mean by a node in a computer network?

   (b) What is router?

   (c) What do you mean by TCP/IP model?

   (d) What is HTTP?

   (e) What is NIC?

   (f) What is analog signal and digital signal?

   (g) Why digital communication is so popular than analog?

GROUP-B

Answer any *four* questions from the following   8×4 = 32

2.   Define the following terms. (any *four*)   2×4 = 8

   (a) Node

   (b) Hub

   (c) Backbone

   (d) Router

   (e) Bridge

   (f) Gateway

3. (a) What makes a network effective and efficient?   3+2+3

   (b) What is bandwidth?

   (c) Explain the functionality of OSI session layer.

4. (a) What is piggybacking?   4+4

   (b) What are the advantages of optic fibers?

5. (a) What is a MAC address? Give an example.   2+6

   (b) Differentiate between 'attenuation', 'distortion', and 'noise'.

6. (a) What do you mean by Ethernet?   2+2+4

   (b) Mention the uses of the Hamming code.

   (c) Differentiate between Domain and a Workgroup.

7. (a) What is the difference between TCP/IP model and the OSI model?   6+2

   (b) What do you mean by Ipv6?

8. (a) Briefly explain what is ICMP?   3+3+2

   (b) What is a client/ server network?

   (c) What is anonymous FTP?

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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