2020

COMPUTER SCIENCE — GENERAL

Fourth Paper

(Group - A)

Full Marks : 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

SET - 1

Answer **question no.** **1** and **any five** questions from the rest.

1. Answer **any five** questions :   2×5

   (a) Define Data Rate.

   (b) What is S/N ratio?

   (c) What is multiplexing?

   (d) Differentiate between time domain and frequency domain.

   (e) Define IP address.

   (f) What is Ethernet?

   (g) What are the uses of bridges and routers?

   (h) What is the functionality of UDP?

2. (a) Write short notes on following media :
      (i) Twisted pair
      (ii) Coaxial cable.

   (b) Explain the concepts of full duplex and half duplex with example.   (2+2)+4

3. (a) Differentiate between LAN, MAN and WAN.

   (b) Write down the functionalities of Network and Transport layer in OSI model.   4+4

4. (a) Write short notes on : (i) FSK and (ii) ASK.

   (b) What is Geosynchronous satellite?   (3+3)+2

5. (a) Describe the uses of a browser.

   (b) Define logical, physical and port address.   5+3

Please Turn Over

6. (a) Describe the principle of Token Ring Technology with diagram.

(b) What is the functionality of DNS? 6+2

7. (a) Briefly describe the architecture of E-mail service.

(b) What is PAM? 6+2

8. Explain with diagram TCP/IP protocol suite. 8

9. (a) What do you mean by URL?

(b) Describe the microwave transmission technique with example. 2+6

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