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 - 3

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

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

   (a) What is SNR?

   (b) What is meant by unguided transmission media?

   (c) Define : transmission impairments.

   (d) Write the differences between mesh and star topology.

   (e) What is the functionality of browser?

   (f) What is Shannon capacity?

   (g) Write two differences between serial and parallel transmission.

   (h) What is network topology?

2. What is multiplexing? Explain the differences between TDM and FDM with suitable diagram. What are the basic components of telephone network? 2+4+2

3. What is modulation? Briefly describe FSK and PSK. 2+(3+3)

4. What is SMTP? Explain its working principle . Write the applications of twisted pair cable. (1+5)+2

5. Briefly describe the functions of different layers of OSI model. 8

6. What is physical, logical and port address? What do you mean by classful IP addressing? 3+5

7. What is line coding? Explain any two line coding methods. Define : TELNET. 2+4+2

8. What is PCM? Write the differences between PCM and DM. What is DSL technology? 2+4+2

9. Write short notes on : 2×4

   (a) Bluetooth, (b) URL, (c) HTML, (d) ATM.