

UG 5th Semester Examination 2021

COMPUTER SCIENCE (General)

Paper Code : DSE-1A

Data Communication & Networking

[CBCS]

Full Marks: 32

Time: 2 hours

The figures in the margin indicate full marks.

Group -A

(2×6 = 12)

Answer any six questions.

1. (a) What is composite signal?
- (b) Define Baud-rate.
- (c) Name the components of data communication.
- (d) What is twisted pair cable?
- (e) What is line coding?
- (f) What is WAN?
- (g) What is protocol?

Group -B

(10 × 2 = 20)

Answer any two questions.

2. (a) Explain the need of layered architecture.
- (b) State the functions of each layer of TCP/IP model. 5 + 5 = 10
3. (a) Explain FDM briefly.
- (b) Discuss any two network topologies with its advantages and disadvantages. 5 + 5 = 10
4. (a) Discuss causes of transmission impairments.
- (b) Write short note on any two of the following:
 - i. Modem
 - ii. IP address
 - iii. Router
 - iv. WWW 4+(3+3)=10