2024/FYUG/EVEN/SEM/ BVITDSC-151T/149

FYUG Even Semester Exam., 2024

BACHELOR OF VOCATIONAL COURSE (INFORMATION TECHNOLOGY)

(2nd Semester)

Course No.: BVITDSC-151T

(Computer Network)

Full Marks: 35
Pass Marks: 14

Time: 2 hours

The figures in the margin indicate full marks for the questions

SECTION—A

Answer any five of the following questions: 2×5=10

- 1. Define analog and digital signal with example.
- 2. Define serial transmission.
- 3. Define circuit switched network.

(2)

- **4.** Distinguish between upstream sharing and downstream sharing.
- 5. Differentiate between single bit-error and burst error.
- **6.** Distinguish between error detection and error correction.
- Define random access protocol and controlled access protocol.
- 8. Explain pure ALOHA.
- **9.** Distinguish between super-netting and sub-netting.
- 10. Define IPv4 address.

SECTION-B

Answer any five of the following questions: 5×5=25

- 11. Explain bipolar line coding scheme with example.
- 12. Briefly explain different network topologies.

- 13. Briefly explain the following:
 - (a) Dial-up modems
 - (b) Virtual Circuit Identifier (VCI)
- 14. Define DSL technology. Briefly explain discrete multitone technique for modulation.
- **15.** Explain cyclic redundancy check with suitable example.
- **16.** Briefly explain stop-and-wait protocol with example.
- 17. Briefly explain the following backbone networks:
 - (a) Bus backbone
 - (b) Star backbone
- 18. Write short notes on the following:
 - (a) Hubs
 - (b) Bridges
 - (c) Router
 - (d) Gateways
 - (e) Repeaters

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- 19. Explain different classes of classfull IP addressing with example.
- 20. Write short notes on the following:
 - (a) HTTP
 - (b) FTP (cap of paging decrees a specific constraint of the constr

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