



NP – 868

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VI Semester B.Sc. Examination, June/July 2025

(NEP) (F+R)

COMPUTER SCIENCE

CS – 14 : Computer Networks

Time : 2½ Hours

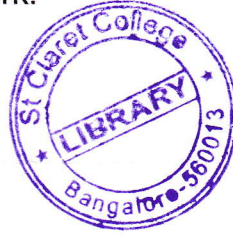
Max. Marks : 60

Instruction : Answer **all** the Sections.

SECTION – A

I. Answer **any four** questions. **Each** question carries **two** marks. (4×2=8)

- 1) Write the advantages of computer network.
- 2) What is NIC ?
- 3) What is full duplex transmission mode ?
- 4) Mention any two network device.
- 5) What is DNS ?
- 6) What is congestion control ?



SECTION – B

II. Answer **any four** questions. **Each** question carries **five** marks. (4×5=20)

- 7) Explain topology with neat diagram.
- 8) Explain the different types of control access protocol.
- 9) Write the difference between IPV₄ and IPV₆.
- 10) Explain the transmission media with neat diagram.
- 11) Explain the working of cyclic redundancy check with suitable example.
- 12) Explain packet switching in detail with suitable example.

P.T.O.



SECTION – C

III. Answer **any four** questions. **Each** question carries **eight** marks. **(4×8=32)**

- 13) Explain OSI reference model with neat diagram.
- 14) Explain error detection and correction.
- 15) Explain the distance vector algorithm.
- 16) What is CSMA ? Explain the CSMA/CA with flowchart.
- 17) Explain sliding window method of flow control.
- 18) What is framing ? Explain the different types of framing.