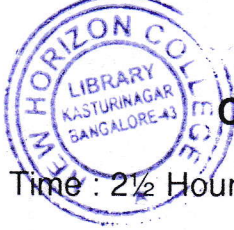




**III Semester B.C.A. Degree Examination, December 2024/January 2025
(NEP Scheme) (Freshers and Repeaters)**



COMPUTER APPLICATIONS

CAC09 : Computer Communication and Networks

Time : 2½ Hours

Max. Marks : 60

SECTION – A

I. Answer **any 6** of the following. **Each** carries **2** marks.

(6×2=12)

- 1) Mention any two characteristics of data communication.
- 2) What is SMTP ?
- 3) List any two types of guided media.
- 4) What is flow control ?
- 5) What is multiplexing ?
- 6) What is framing ?
- 7) What is single bit error and burst error ?
- 8) What is congestion ?
- 9) Define routing.

SECTION – B

II. Answer **any 4** questions. **Each** question carries **6** marks.

(4×6=24)

- 10) Explain the 3 different types of transmission modes.
- 11) Describe the LAN technology.
- 12) Explain radio waves.
- 13) Explain coaxial cable with a neat diagram.
- 14) Describe the stop and wait protocol.
- 15) Write a short note on DNS.

P.T.O.



SECTION – C

III. Answer **any 3** questions. **Each** question carries **8** marks.

(3×8=24)

- | | |
|---|---|
| 16) Explain OSI model with a neat diagram. | 8 |
| 17) a) Explain the working of link state routing algorithm. | 4 |
| b) Discuss about the message switching. | 4 |
| 18) Explain TCP and UDP in detail. | 8 |
| 19) Describe the distance vector routing algorithm. | 8 |
| 20) a) Write a note on HTTP and FTP. | 4 |
| b) Explain 2 types of flooding. | 4 |
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