



NP – 396

III Semester B.C.A. Degree Examination, February/March 2024
(NEP Scheme) (F + R)
COMPUTER SCIENCE
Computer Networks

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer all Parts.

PART – A

I. Answer **any 4** of the following.

(4×2=8)

- 1) What are the categories of networks ?
- 2) Differentiate between TCP and IP.
- 3) What is polling ?
- 4) What is the significance of Mobile IP ?
- 5) What is the purpose of unicast routing ?
- 6) Mention any two E-mail protocols.

PART – B

II. Answer **any 4** of the following.

(4×5=20)

- 7) Explain about error detection and correction.
- 8) Discuss in detail about data link layer protocols.
- 9) Explain FDMA and TDMA.
- 10) Differentiate between IPv4 and IPv6 addressing.
- 11) Discuss the design issues of data link layer.
- 12) Write a note on Domain name system and Quality of service.

P.T.O.



PART – C

III. Answer **any 4** of the following.**(4×8=32)**

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|---|---|
| 13) With a neat diagram explain OSI reference model. | 8 |
| 14) Discuss Block coding, cycle codes and checksum. | 8 |
| 15) What is pure and slotted ALOHA ? Discuss in detail. | 8 |
| 16) Explain the different dynamic routing algorithms. | 8 |
| 17) Explain the different transport layer protocols. | 8 |
| 18) Write a short note on the following. | |
| a) Wireless LAN. | 5 |
| b) Token passing. | 3 |
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