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III Semester B.C.A. Degree Examination, March/April - 2024

COMPUTER APPLICATIONS

Computer Networks

(NEP 2021 Scheme Onwards)

Paper : CA-C12T

Time : 2½ Hours

Instructions to Candidates:

Answer All the sections.



Maximum Marks : 60

SECTION - A

I. Answer any FOUR questions. Each question carries 2 marks.

(4×2=8)

1. Define Topology.
2. What is transmission media?
3. Define voice attenuation.
4. What are the two main transport layer protocols?
5. What is client server architecture?
6. Define packet.

SECTION - B

II. Answer any FOUR questions. Each question carries 5 marks.

(4×5=20)

7. Explain types of transmission modes.
8. Define errors and explain types of errors.
9. Explain three types of HDLC frames.
10. Explain IPV4 address.
11. Write the difference between TCP and UDP.
12. Explain parameters of QoS.

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SECTION - C

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

(4×8=32)

13. Describe the OSI/ISO reference model with diagram.
 14. Explain FDMA and TDMA.
 15. Explain pure ALOHA and PPP.
 16. Illustrate the working of mobile IP.
 17. Explain distance vector routing algorithm.
 18. Explain network application architecture.
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