

BCA-15

December - Examination 2025
BCA (Part III) Examination
FUNDAMENTALS OF COMPUTER NETWORKS
Paper : BCA-15

[Time: 3 Hours]

[Maximum Marks: 70]

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A

7×2=14

(Very Short Answer Type Questions)

Note :- Answer **all** questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries **2** marks.

1. (i) What is bit rate?
- (ii) Write difference between guided and unguided media.
- (iii) What is Ethernet?
- (iv) Define subnetting.
- (v) What is e-commerce?
- (vi) Write two differences between teleconferencing and video conferencing.
- (vii) What is Internet?

Section-B

4×7=28

(Short Answer Type Questions)

Note :- Answer **any four** questions. Each answer should not exceed **200** words. Each question carries **7** marks.

2. Explain multiplexing.
3. Explain any two network topologies.
4. Explain different types of networks.
5. Discuss different types of guided media used in network.
6. Explain protocol hierarchies.
7. Explain frame relay header structure.
8. Explain different IP address classes.
9. Discuss features of e-commerce.

Section-C

2×14=28

(Long Answer Type Questions)

Note :- Answer **any two** questions. You have to delimit your each answer maximum up to **500** words. Each question carries **14** marks.

10. Explain computer network, their evolution and applications.
11. Explain transmission impairments.
12. Explain shortest path routing.
13. Explain different types and sources of network threat.
