

**BCA-15**

December - Examination 2019

**BCA Pt. III Examination****Fundamental of Computer Networks****Paper - BCA-15****Time : 3 Hours ]****[ Max. Marks :- 70**

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

**Section - A****7 × 2 = 14****(Very Short Answer Questions)**

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

1.
  - i. What do you mean by WLAN?
  - ii. What is half duplex Communication?
  - iii. Define the term Packet in computer networks.
  - iv. What is use of HUB in computer networking?
  - v. What do you understand by Protocol?
  - vi. What is the work of Routers in computer networks?
  - vii. Write any two types of topologies mostly used in computer networking.

**Section - B** $4 \times 7 = 28$ **(Short Answer Questions)**

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

2. Discuss the work and importance of routing algorithms in computer networking.
3. Explain the functioning data link layer.
4. Discuss various types of spread scale transmission methods with their diagrams and details.
5. Describe the functionality of point to point protocol.
6. Explain the use of session layer in TCP/IP reference model.
7. Describe the working of network Layer in TCP/IP.
8. Write short note on Distance Vector Routing.
9. What is congestion and why we required a cogestion control?

**Section - C** $2 \times 14 = 28$ **(Long Answer Questions)**

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

10. Discuss the concepts of OSI Reference model with suitable examples.
11. Explain IP addressing scheme of networking.
12. Explain the functionality of application layer in TCP/IP.
13. Explain the working of HUB with all kind of possible topologies with diagram.