

**BCA-15**  
June - Examination 2019  
**BCA Pt. III Examination**  
**Fundamental of Computer Networks**  
**Paper - BCA-15**

**Time : 3 Hours ]**

**[ Max. Marks :- 70**

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**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 switching?
- (ii) What are PANs and its uses?
- (iii) What is simplex communication?
- (iv) What is broadcasting?
- (v) What do you understand by Ethernet in networking?
- (vi) What is Extranet?
- (vii) What is the use of Internet and Intranet?

**Section - B****4 × 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 OSI reference model with protocols in brief.
3. Explain the functioning of Automatic Repeat Request routing algorithm.
4. Discuss the differences between message and circuit switching.
5. Describe the functionality of an Ethernet in computer networks.
6. Explain differences between LAN, MAN, PAN, WAN and WLAN.
7. Describe various types of topologies useful in computer networking.
8. Explain the difference between Router and Hub.
9. Explain the working of presentation layer of OSI model.

**Section - C****2 × 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) Describe TCP/IP reference model and its protocol architecture.
11. Explain Internet Protocol with their frame diagram.
12. Explain the working of Transport layer of OSI model.
13. Explain any of Routing Algorithm with neat and clean diagram.