

BCA-15

June - Examination 2018

BCA Pt. III Examination**Fundamental of Computer Networks****Paper - BCA-15****Time : 3 Hours]****[Max. Marks :- 100**

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

Section - A**10 × 2 = 20**

(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 up to 30 word. Each question carries 2 marks.

- 1) (i) What do you mean by Routing?
- (ii) What are WLANs and its uses?
- (iii) What is half duplex communication?
- (iv) What is public key and private key?
- (v) What do you understand by PPP in network?
- (vi) What is Intranet?
- (vii) What is the use of IP addresses?
- (viii) What is packet in computer networks?

- (ix) What is full form of FDM?
- (x) Write differences between TDM and FDM?

Section - B**4 × 10 = 40**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) Discuss the TCP/IP Protocol Suite in brief.
- 3) Explain the functioning of shortest path routing algorithm.
- 4) Discuss the differences between packet and circuit switching.
- 5) Describe the functionality of transmission media in computer networks.
- 6) Explain differences between Routers and Gateways.
- 7) Describe various types of cables useful in computer networking.
- 8) Describe Intranet and Extranet services in computer networking.
- 9) Explain the protocol layer concept.

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) Describe OSI reference model and its protocol architecture.
 - 11) Explain IPV4 and IPV6 with their frame diagram.
 - 12) Explain the working of network layer of OSI model.
 - 13) Explain the working of wireless LANs.
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