

BCA-15

December - Examination 2016

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 upto 30 words. Each question carries 2 marks.

- 1) (i) What is Computer Network?
- (ii) What is Bandwidth?
- (iii) What is Half Duplex Communication?
- (iv) What is noise?
- (v) What is the difference between analog and digital?
- (vi) What is the full form of FDM?
- (vii) What is the full form of PAN?
- (viii) What is Repeater?

- (ix) What is the use of session layer?
- (x) What is the definition of Routing?

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) What is congestion and why we required congestion control?
- 3) Write short note on:
 - (i) Distance vector routing
 - (ii) Link state routing
 - (iii) Broad cast routing
- 4) What is a Network Service? Explain its concept.
- 5) Write a short note on ISDN.
- 6) What is E-commerce?
- 7) Describe smart cards and give examples of what they can do.
- 8) Write short note on network architecture.
- 9) Classify Indian Networks?

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) Write short notes on:

- (i) SIRNET
- (ii) BTISNET
- (iii) BONET
- (iv) MALIBNET

11) Explain various types of Multiplexing.

12) Explain TCP/IP layered architecture in detail.

13) What is Non-Adaptive Routing algorithm? Explain Shortest path routing with example.
