

Roll No. 0802508

BCA-503(N)

B. C. A. (Fifth Semester)

EXAMINATION, Nov./Dec., 2018

(New Course)

Paper Third

COMPUTER NETWORK

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 3 marks.

1. (A) Write minimum *four* characteristics of data communication to exchange the data between two devices.
- (B) Write *five* topology of Computer Networks.
- (C) Write minimum *five* comparison of TCP/IP and ISO/OSI model.

(C-91) P. T. O.

[2]

BCA-503(N)

- (D) Write *two* types of Guided media and *two* types of Unguided media.
- (E) Write the difference between WDM and TDM and also between TDM and FDM.
- (F) What is packet switching ? Write at least *one* technique of packet switching.
- (G) Write *three* characteristics of Data Link Layer.
- (H) Write *two* characteristics of Network Layer.
- (I) Write the *three* differences between Repeaters and Bridges.

Section—B

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 12 marks.

- 2. What is Network Criteria ? Write at least *three* criteria of Network.
- 3. Write at least *three* functions of each layer of ISO/OSI model.
- 4. What are different Network Connecting Devices ? Write at least *four* network connecting devices.
- 5. Write *three* main functions of Presentation layers in detail.

Section—C

(Long Answer Type Questions)

Note : Attempt any *two* questions. Each question carries 12 marks.

- 6. What is ISDN ? What is the differences between Broadband ISDN and ISDN ? Explain in detail.

(C-91)

[3]

- 7. How can we detect the errors in Networks ? Define single bit and multiple bit errors in Computer Networks.
- 8. Write at least *two* routing algorithms and also explain in detail.
- 9. Write *five* protocol of applications layer and also explain each protocol in brief.

BCA-503(N)

2,500

(C-91)