

Seat No.	
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**B.C.A. (Faculty of Commerce)(Part - III) (Semester - V) Examination,
October - 2018**

**COMPUTER NETWORK
(Paper - 503) (Revised)
Sub. Code: 66417**

Day and Date : Wednesday, 24 - 10 - 2018

Total Marks : 80

Time : 10.30 a.m. to 1.30 p.m.

- Instructions :**
- 1) **Q.No. 8 is compulsory**
 - 2) **Solve any Four questions from Q.No.1 to Q.No.7.**
 - 3) **All questions carry equal marks.**

Q1) What is Multiplexing? Explain frequency-division multiplexing (FDM) and time division multiplexing (TDM). [16]

Q2) a) Describe various services provided by data link layer. [8]

b) Explain remote procedure calls. [8]

Q3) What is routing? Explain shortest path and distance vector routing algorithms. [16]

Q4) a) Explain various guided transmission media. [8]

b) What is congestion? How to control congestion in network layer? [8]

Q5) a) What is IP address? Explain structure of IP address with example. [8]

b) Explain TCP/IP reference model. [8]

Q6) a) Describe simplex, half-duplex and full-duplex data flow. [8]

b) Describe various transport layer primitives. [8]

P.T.O.

Q7) What is cryptography? Explain symmetric and asymmetric key cryptography. [16]

Q8) Write short notes on **(Any Four)**: [16]

- a) File transfer protocol [FTP]
- b) Message switching
- c) TCP protocol
- d) Peer-to-peer architecture
- e) Satellite communication

