

Seat No.	
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**B.C.A. (Part - III) (Semester - V) (New) Examination, October - 2015**  
**COMPUTER NETWORK (Paper - 503)**  
**Sub. Code : 66417**

Day and Date : Tuesday, 27 - 10 - 2015

Total Marks : 80

Time : 03.00 p.m. to 6.00 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 16 marks.

- Q1)** What is switching? Explain packet switching and message switching. [16]
- Q2)** a) What is IP address? Explain its structure. [8]  
 b) Write difference between OSI and TCP/IP reference model. [8]
- Q3)** Describe OSI reference model in detail with diagram. [16]
- Q4)** a) Explain coaxial cable as a communication channel with diagram. [8]  
 b) Explain various transmission modes of computer network. [8]
- Q5)** a) Explain shortest path routing algorithm. [8]  
 b) What is framing? Explain framing methods. [8]
- Q6)** a) What is congestion? Explain the need of congestion control. [8]  
 b) How to detect and correct errors in data link layer? [8]

**P.T.O.**

Q7) What is multiplexing? Explain FDM and TDM.

[16]

Q8) Write short notes on (Any Four)

[16]

- a) SMTP
- b) Client server architecture
- c) TCP
- d) Flooding
- e) Components of data communication

