

<b>Seat No.</b>	
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**B.C.A. (Part - III) (Semester - V) (Revised)****Examination, November - 2016****COMPUTER NETWORK (Paper - 503)****Sub. Code : 66417****Day and Date : Saturday, 12 - 11 - 2016****Total Marks : 80****Time : 2.30 p.m. to 5.30 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 switching? Explain circuit switching and packet switching. [16]**

**Q2) a) Explain various design issues of data link layer. [8]**

**b) Describe domain name system with example. [8]**

**Q3) Draw neat labeled diagram and explain OSI reference model. [16]**

**Q4) a) What are the services provided by presentation layer? [8]**

**b) Explain categories of networks. [8]**

**Q5) a) Explain any two un-guided transmission media. [8]**

**b) Describe services provided by session layer. [8]**

**Q6) a) Explain various components of data communication. [8]**

**b) What is IP address? Explain characteristics of IP address. [8]**

**P.T.O.**

**Q7)** Describe parallel and serial transmission modes.

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

**[16]**

- a) Symmetric key cryptography.
- b) Distance vector routing algorithm.
- c) Wavelength-Division Multiplexing.
- d) Client-server Architecture.
- e) UDP protocol.

