

**B.C.A. (2010 COURSE SEM- V : WINTER - 2017**  
**SUBJECT: COMPUTER NETWORKS-II**

Day : **Saturday**  
Date : **11/11/2017**

Time : **02.00 PM TO 05.00 PM**  
Max. Marks : **70.**

**W-2017-1647**

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**N.B.:**

- 1) Q. No. 1 is **COMPULSORY.**
  - 2) Each question carries **FOURTEEN** marks.
  - 3) Attempt **ANY FOUR** questions from Q. No. 2 to Q. No. 7
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- Q.1** Explain the Layered Architecture of TCP/IP model in detail. (14)
- Q.2** What is the role of connecting devices in networking? Explain the different components of LAN. (14)
- Q.3** Differentiate between the following: (14)  
a) Secret key algorithm Vs. Public key algorithm  
b) TCP Vs. UDP.
- Q.4** What is Internet Protocol? Explain the process of packet fragmentation and reassembly. (14)
- Q.5** Explain TCP protocol and its frame format. (14)
- Q.6** What is Domain Name System (DNS)? How DNS is used for internet? Explain the process of Name Address Resolution. (14)
- Q.7** Write short notes on any **TWO** of the following: (14)  
a) Ethernet  
b) DSL Technology  
c) Digital Signature  
d) Firewall.

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