

B.C.A. (2010 COURSE SEM- IV : SUMMER - 2018

SUBJECT: COMPUTER NETWORKS-I

Day: Monday
Date: 30/04/2018

S-2018-1734

Time: 10.00 AM TO 01.00 PM
Max. Marks: 70

N.B:

- 1) Q. No.1 is **COMPULSORY**.
 - 2) Each question carries **14** marks.
 - 3) Attempt **ANY FOUR** questions from Q. No.2 to Q. No.7.
 - 4) Draw neat and labeled diagram **WHEREVER** necessary.
-

- Q.1** Explain switching techniques with their advantages and disadvantages. **(14)**
- Q.2** Explain OSI reference model in detail with neat diagram. **(14)**
- Q.3** Explain basic features of Ethernet. What are different topologies used in Ethernet? **(14)**
- Q.4** Different between the following: **(14)**
- a) Simplex Vs. Full Duplex
 - b) LAN Vs. MAN Vs. WAN
- Q.5** a) Explain the Wireless LAN (IEEE 802.11) Architecture. **(07)**
- b) Explain the frame format of Wireless LAN (IEEE 802.11) Architecture. **(07)**
- Q.6** What are different categories of connectivity devices? Explain Bridges and switches in detail. **(14)**
- Q.7** Write short notes on **ANY TWO** of the following: **(14)**
- a) Network Interface Card (NIC)
 - b) Search Engine
 - c) Bluetooth

* * * * *