B.C.A. SEM–IV (2014 COURSE) CBCS : SUMMER - 2018
SUBJECT : COMPUTER NETWORKS - I

Day :	**Friday**		Time : **10.00 AM TO 01.00 PM**
Date :	**27/04/2018**	**S-2018-1706**	Max. Marks : 100

N. B. :

1) Attempt **ANY FOUR** questions from Section – **I** and attempt **ANY TWO** questions from Section – **II**.
2) Figures to the right indicate **FULL** marks.
3) Answers to both the sections should be written in **SEPARATE** answer book.

SECTION - I

Q. 1   Explain different switching techniques in detail.   **(15)**

Q. 2   Explain different modes of communication in detail.   **(15)**

Q. 3   Differentiate between the following: **(15)**
  a) Packet Switching v/s Circuit Switching
  b) Switches v/s Bridge

Q. 4   Explain Bluetooth architecture in detail with its applications.   **(15)**

Q. 5 a) Explain IEEE 802.4 (Token Bus) standard in detail.   **(07)**
      b) Explain IEEE 802.5 (Token Ring) standard in detail.   **(08)**

Q. 6   What are different types of transmission media? Explain twisted pair cable   **(15)**
        and coaxial cable in detail.

Q. 7   Write short notes on **ANY THREE** of the following: **(15)**
  a) Network Interface Card (NIC)
  b) Internet Service Provider (ISP)
  c) E-mail
  d) Satellite Communication

SECTION - II

Q. 8   Explain TCP/IP model in detail with appropriate diagram.   **(20)**

Q. 9   Explain Ethernet types, Ethernet cables and Ethernet topologies in detail.   **(20)**

Q.10   Design a network layout of a University for different departments. Suggest   **(20)**
        which topologies and network devices you will prefer for this network. Justify
        your answer.

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