

B.C.A. SEM-IV (2014 Course) CBCS : SUMMER - 2019

SUBJECT : COMPUTER NETWORKS - I

Day : Tuesday
Date : 16/04/2019

S-2019-2071

Time : 10.00 AM TO 01.00 PM
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 **SAME** answer book.
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SECTION - I

- Q. 1** Define Network Topology. Explain different types of network topologies in detail. (15)
- Q. 2** What are different classes of transmission media? Explain unguided media in detail. (15)
- Q. 3** Differentiate between the following: (15)
- a) Half Duplex Vs. Full Duplex
 - b) Bridge Vs. Gateway
- Q. 4** Explain the frame format and frame types of wireless LAN (IEEE 802.11). (15)
- Q. 5** Explain the role of connecting devices in communication. Explain Hub and switches in detail. (15)
- Q. 6** What is Local Area Network (LAN)? Explain LAN components in detail with appropriate diagram. (15)
- Q. 7** Write short notes on **ANY THREE** of the following: (15)
- a) E – mail
 - b) Radio – waves
 - c) Internet Information Server (IIS)
 - d) Gateways

SECTION - II

- Q. 8** Explain Bluetooth architecture and its types in detail. (20)
- Q. 9** Explain various switching techniques with their advantages and disadvantages. (20)
- Q.10** What is importance of layered architecture? Explain OSI reference model in detail. (20)

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