

END SEMESTER EXAMINATION, JUNE - 2019
BCA SECOND SEMESTER

COURSE CODE: BCA109	COURSE TITLE: DATA COMMUNICATION & COMPUTER NETWORKS
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[Time allotted: Three hours]**[Max. Marks: 100]***Note: Attempt all Sections*

Section (A)

Q. 1. Attempt all questions.**(2 x 10 = 20)**

- a. What is RIP?
- b. What is IP-V6?
- c. Explain classes of IP-V4 addresses.
- d. What is a socket?
- e. How many numbers of logical ports are there in computer networks?
- f. Explain what is DHCP?
- g. What is a server?
- h. Why mesh topology is most expensive topology?
- i. Explain what is broadcasting?
- j. Explain what is burst error?

Section (B)

Q. 2. Attempt any 5 questions.**(7 x 5 = 35)**

- a. What is flow control? Why it is important in computer networks?
- b. What are the responsibilities of data link layer?
- c. Explain TCP/IP and it's working.
- d. How DNS works? Why it is important?
- e. What do you understand by NAT and PAT? Why it is important?
- f. What are the advantages of IP-V6 over IP-V4?
- g. What is VPN? How it works and why it is important?

Section (C)

Attempt any 3 questions.**(15 x 3 = 45)**

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| Q.3. | a. Explain all possible transmission media in computer networks. | 7.5 |
| | b. What are computer network protocols and standards? Why it is important? | 7.5 |
| Q.4. | a. What do you understand by hybrid switching? Why it is required? | 7.5 |
| | b. Explain ALOHA in detail. Explain both of its types. | 7.5 |
| Q.5. | a. What is OSPF explain its working in detail? | 7.5 |
| | b. Explain the working of virtual lan. Why it is required? | 7.5 |
| Q.6. | a. What is congestion? Explain any algorithm to overcome from it. | 7.5 |
| | b. Explain the importance of transport layer in detail. | 7.5 |
| Q.7. | a. Explain VoIP in detail. | 7.5 |
| | b. What is QoS in computer networks? | 7.5 |
