B.E. (IT) (Sem -VII) (CB) Date-14|11|2019

(3 Hours) [Total Marks: 80]

N.B.: (1) Question No.1 is compulsory.

(2) Attempt any three questions from the remaining five questions.

(3) Make suitable assumptions wherever necessary but justify your assumptions

1. a) Explain SONA framework for flexible network design. 10

   b) Compare the Top-Down vs Bottom-Up Network Design Approach 10

2. a) State and Explain in brief different external threats hampering the integrity of the enterprise network. 10

   b) Explain different phases in PPDIOO Network Lifecycle. 10

3. a) Explain the role SNMP in network management. 10

   b) Explain the hierarchical network model of network design. 10

4. a) Explain VPN and its implementation techniques. 10

   b) Explain EIGRP in detail and highlight its characteristics which make it suitable for Enterprise Networks. 10

5. a) State and Explain IPv4 to IPv6 Transition strategies. 10

   b) State and explain suitable routing protocols for Enterprise architecture. 10

6. Write a note on (any two) 20

   a. SDN Architecture

   b. MPLS

   c. Enterprise WAN architecture technologies

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