

ME sem I] comp/ CBC/ AH2019

25/05/2019
Marks: 80

Time Duration: 03Hrs

Note: Question 1 is compulsory.

Attempt any three out of remaining five questions.

Make suitable assumptions whenever necessary.

- Q.1 [a] An organization is granted the block 211.17.180.0/24. The administrator wants to create 32 subnets. [10]
i. Find the subnet mask.
ii. Find the number of address in each subnet.
iii. Find the first and last address in the first subnet.
iv. Find the first and last address in the last subnet.
- [b] Explain IPv6 in detail. Compare it with IPv4. [10]
- Q.2 [a] Explain EIGRP protocol. Compare it with OSPF [10]
[b] What is congestion avoidance mechanism? Explain any two methods in details. [10]
- Q.3 [a] Describe traditional WAN design Technologies. [10]
What is difference between congestion control and flow control? [10]
[b] Describe additive increase and multiplicative decrease method in TCP congestion control.
- Q.4 [a] What is hidden terminal problem? Explain MACA/W and MACA-BI algorithm. [10]
[b] Explain dynamic source routing (DSR) protocol in detail. [10]
- Q.5 [a] Explain the phases of PPDIOO network life cycle. [10]
[b] What is reactive routing protocol? Explain the working of AODV routing protocol? [10]
- Q.6 Write a short note on(Any two) [10]
1. Virtualization and Data Center Design [10]
2. DSDV [10]
3. Border Gateway Protocol(BGP) [10]