

SYNERGY INSTITUTE OF ENGINEERING AND TECHNOLOGY, DHENKANAL

Near NH-55, Banamali Prasad – 759001

**Assignment-III****Name-****Full Marks-40****Duration-Within 1 Week from Notification****Registration No-****Subject with Code: COMPUTER NETWORKS
(CSPC2007)****Course & Branch: B. Tech: CSE**

Course Outcome	Total Marks	Marks Secured	Signature of Evaluator
CO3	40		

Section- A Answer All Questions

1. What is piggybacking [2marks][CO3][L1]
2. List two main function of Transport layer [2marks][CO3][L1]
3. Why we migrate from IPv4 to IPv6? [2marks][CO3][L3]
4. How the routers get the information about neighbor? [2marks][CO3][L2]

Section-B Answer All Questions

1. Differentiate between IPv4 and IPv6. [6marks][CO3][L2]
2. In a block of addresses, we know the IP address of one host is 182.44.82.16/26. What are the first address (network address) and the last address in this block? [6marks][CO3][L3]

Section-C Answer All Questions

1. Explain the following networking devices in detail [10 marks][CO3] [L2]
 - a. Router
 - b. Bridge
 - c. Gateway
 - d. Repeater
 - e. Hub
 - f. Switch
2. What are the types of class full addressing? And Function of each class address range the following IPv4 addresses from binary notation to dotted-decimal notation.
 - a. 10000001 00001011 00001011 11101111
 - b. 11000001 10000011 00011011 11111111 [10 marks][CO3][L3]

Additional Questions

1. If a class B network on the Internet has a subnet mask of 255.255.248.0, what is the maximum number of hosts per subnet? [2marks][CO3][L2]