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06CS64

Sixth Semester B.E. Degree Examination, June/July 2019

**Computer Networks – II**

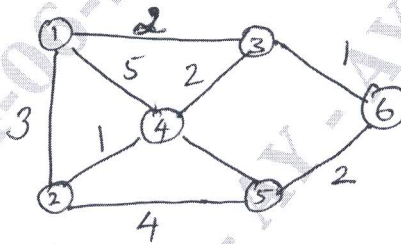
Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO questions from each part.

**PART – A**

- 1 a. Differentiate between virtual circuits and datagram subnets. (10 Marks)
- b. Define routing. Explain Bellman-Ford routing algorithm with necessary illustrations and solve the following problem for destination node 6. (10 Marks)



- 2 a. Describe the TCP/IP architecture. (10 Marks)
- b. Explain the leaky bucket algorithm for policing the traffic at flow control. (10 Marks)
- 3 a. Describe the IPV6 Frame format. (06 Marks)
- b. Explain about User Datagram Protocol. (06 Marks)
- c. Demonstrate the working of Mobile IP. (08 Marks)
- 4 a. Explain BISDN reference model. (10 Marks)
- b. Describe about the PNNI signaling in ATM. (10 Marks)

**PART – B**

- 5 a. Describe RSA algorithm with example. (10 Marks)
- b. Describe Domain Name System and also explain DNS message format with a neat diagram. (10 Marks)
- 6 a. Explain VPN and its types based on tunneling. (10 Marks)
- b. Explain the differentiated services QoS with neat diagram. (10 Marks)
- 7 a. List and explain the compression methods without loss. (10 Marks)
- b. With a neat diagram, explain SIP protocol. (10 Marks)
- 8 a. Briefly explain the classification routing protocols in wireless adhoc networks. (10 Marks)
- b. Demonstrate briefly intercluster and intracluster routing protocols in WSN. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.