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06CS/IS64

**Sixth Semester B.E. Degree Examination, December 2010**  
**Computer Networks - II**

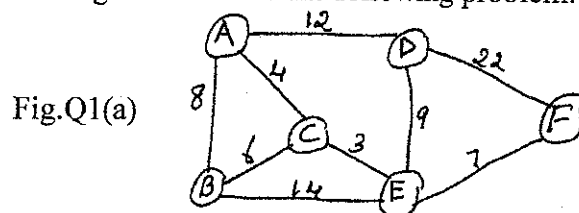
Time: 3 hrs.

Max. Marks:100

**Note: Answer any FIVE full questions, selecting atleast TWO questions from Part – A and Part - B.**

**PART – A**

- 1 a. Explain Dijkstra's algorithm. Solve the following problem. (10 Marks)



- b. Differentiate between virtual circuit and data grams. Explain routing table of both. (10 Marks)
- 2 a. Explain in detail about TLP architecture. (08 Marks)  
 b. Define the following terms : i) End – to – End delay ii) Jitter iii) Buffers (08 Marks)  
 iv) Queue scheduling. (04 Marks)  
 c. Write a short note on random early deduction. (04 Marks)
- 3 a. Explain the network addressing of IPV6. (08 Marks)  
 b. With a neat diagram, explain UDP datagram. (06 Marks)  
 c. Explain internet group management (IGMP) protocol. (06 Marks)
- 4 a. What are the six QoS performance parameters in ATM? (06 Marks)  
 b. With a neat diagram, explain ATM cell header format. (08 Marks)  
 c. Explain BISDN reference model. (06 Marks)

**PART – B**

- 5 a. Explain TLS protocol. (10 Marks)  
 b. Differentiate between DES and RSA. (05 Marks)  
 c. List the types of security services. (05 Marks)
- 6 a. Explain in detail the leaky bucket traffic shaping algorithm. (10 Marks)  
 b. Explain the resource reservation protocol. (06 Marks)  
 c. Write the parameters for classifying the resource allocation scheme. (04 Marks)
- 7 a. Explain the Raw – Image sampling and DCT. (10 Marks)  
 b. Explain Shannon's coding theorem in detail. (10 Marks)
- 8 a. Briefly explain the classification of routing protocol. (06 Marks)  
 b. With a neat sketch, explain the concept of clustering in sensor networks. (06 Marks)  
 c. Differentiate between Intra cluster and Inter cluster routing protocols. (08 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.

