

**End Semester Examinations - 2015-16 Even Semester - May 2016**

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**14EC2025 Computer Communication**

**Set A**

**Time : 3 hrs**  
**Total Marks: 100**

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1. 1 Enlighten the layered architecture of OSI Model in detail. (20)

**OR**

2. 2. a) Explain the different switching techniques in computer networks. (10)  
b) Briefly explain the different network topologies (10)

3. 3. Discuss the concept of redundancy and elucidate about the types of error detection methodologies with necessary examples. (20)

**OR**

4. 4. Explain the two types of sliding window error control techniques. (20)

5. 5. Explain the protocol specifications characteristics of IEEE 802.3 Ethernet. What are the classifications of Ethernet? (20)

**OR**

6. 6. a) Draw the frame formats of Token Bus and Explain. (15)  
b) Assume 6 devices are arranged in a mesh topology. How many cables are needed? How many ports are needed for each device. (5)

7. 7. Discuss in detail about IP protocol and IP address with subnetting. (20)

**OR**

8. 8. Explain in detail about Distance Vector and Link state routing. (20)

9. 9. How is reliable delivery achieved in (TCP) transmission control protocol? Portray the TCP segment frame. (20)

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**Wishing you All the Best**

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