

**OR**

6. a) What is meant by Routing? Explain Routing algorithms in detail 6  
b) What is IP? Explain IP datagram structure 6

**UNIT-IV**

7. a) Explain various services provided by the transport layer 6  
b) Briefly explain about Berkeley Sockets 6

**OR**

8. Briefly explain the following 12  
a) Flow control                      b) Buffering  
c) Multiplexing                      d) Crash Recovery

**UNIT-V**

9. a) What is DNS? Explain how to implement DNS 6  
b) Explain briefly about multimedia 6

**OR**

10. What is SMTP? Explain how it is useful in E-mail 12

[3,7/VI S/111]

**[EURCS 601/EURIT 601]**  
**B.Tech. DEGREE EXAMINATION**

**CSE/IT**  
**VI SEMESTER**

**COMPUTER NETWORKS**

(Effective from the admitted batch 2007–08)

**Time: 3 Hours**

**Max.Marks: 60**

**Instructions:** Each Unit carries 12 marks.

Answer all units choosing one question from each unit.

All parts of the unit must be answered in one place only.

Figures in the right hand margin indicate marks allotted.

**UNIT-I**

- |    |   |   |
|----|---|---|
| 1. | a) What is OSI Reference Model? Explain in detail             | 7 |
|    | b) Distinguish between OSI Reference Model and TCP / IP model | 5 |

**OR**

- |    |   |   |
|----|---|---|
| 2. | a) Distinguish between static and dynamic channel allocation techniques | 6 |
|    | b) What is ALOHA? Write various types of ALOHA                          | 6 |

**UNIT-II**

- |    |  |   |
|----|--|---|
| 3. | a) Briefly explain about 802.11 protocol stack                   | 6 |
|    | b) Explain frame structure and services in MAC Sublayer Protocol | 6 |

**OR**

- |    |  |   |
|----|--|---|
| 4. | a) What is Blue tooth? Explain in detail                   | 6 |
|    | b) What is a Bridge? Explain various categories of Bridges | 6 |

**UNIT-III**

- |    |  |   |
|----|--|---|
| 5. | a) What is packet switching? How is it different from circuit and message switching? | 6 |
|    | b) Explain various services provided by the network layer to the transport layer     | 6 |