SRM University, Kattankulathur
Faculty of Engineering and Technology, Department of Information Technology
**IT1018 – TCP/IP Technology**
**Cycle Test – I**

Degree : B.Tech | Specialisation: IT
**Year/Sem: III/6TH SEM** | **Date:04/03/2017**
Duration : 100 Minutes | Max. Marks: 50

**INSTRUCTIONAL OBJECTIVES**

1. Understand the transport layer protocol and its characteristics.
2. Work with client server sockets and develop related applications to communicate with each other.

**STUDENT OUTCOMES:**

This course presents the following outcomes as required by ABET

1.An understanding of best practices and standards and their application(Outcome m)
m1. ability to understand best practices and applying them in applications
m2.ability to understand the standards available in various fields of computing and following it in an appropriate manner

**Part-A [Answer Any Five Questions] (5x4=20 Marks)**

1 What is the solution for silly window syndrome created at sender side?

2 Differentiate token bucket and leaky bucket algorithm.

3 Why DHCP client uses well known port 68 instead of ephemeral port ?Also how error control is achieved in DHCP.

4 What is zone transfer? Why is it necessary.

5 What is the role of User Agents and Mail Transfer Agents in Email?

6 Define NVT?

**Part-B [Answer any two questions] (2x15=30 Marks)**

7a.i. Describe in detail about error control mechanism in TCP? (10 marks)

.ii. Draw and explain the complete IP header . (5 marks)

[OR]

7.b.Draw and explain TCP congestion control policy in detail. (15 marks)

8a.Explain DHCP protocol in detail with neat client state transition diagram (15 marks)

[OR]

8b.Explain FTP and Telnet protocol in detail. (15 marks)

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Register Number

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Mark Allotment

| Question No | Instructional Objectives | Course Outcome/sub outcome | Marks | | *Outcome Met/Not Met* | *Mark Scored (/50)* |
|---|---|---|---|---|---|---|
| | | | Max Marks | Obtained Marks | | |
| 1 | IO2 | m/m1 | 4 | | | |
| 2 | IO2 | m/m1 | 4 | | | |
| 3 | IO1 | m/m2 | 4 | | | |
| 4 | IO1 | m/m2 | 4 | | | |
| 5 | IO1 | m/m2 | 4 | | | |
| 6 | IO1 | m/m2 | 4 | | | |
| 7a.i | IO2 | m/m1 | 10 | | | |
| 7a.ii | IO1 | m/m2 | 5 | | | |
| 7b. | IO2 | m/m1 | 15 | | | |
| 8a. | IO1 | m/m2 | 15 | | | |
| 8b. | IO1 | m/m2 | 15 | | | |

OUTCOMES

| MET | NOT MET |
|---|---|
| | |

Staff Signature with date