

Uva Wellassa University, Sri Lanka

End Semester Examination – December 2009

CST301-3 Data Communication and Networking
SCT377-3 Data Communication and Networking

Part: B

Time: One (01) Hour

Answer all questions.

Instructions

Login to the university Course Management System (CMS) and download the CST301-3_Question.pka file. After completing the activity, save the answer file and upload it again to the Course Management System.

This network consists of 03 Switches, 01 Server and 07 PCs.

- 1) Rename Office_PC1, Office_PC2 and Office_PC3 as Factory_PC1, Factory_PC2 and Factory_PC3. (05 Marks)
- 2) Rename Switch_Office as Switch_Factory (05 Marks)
- 3) Connect Factory_PC1, Factory_PC2 and Factory_PC3 in to Switch_Factory (05 Marks)
- 4) Connect Switch_HR and Switch_Server_Room. (05 Marks)
- 5) Assign the following IP addresses to HR division PCs. (15 Marks)

| PC | IP |
|--------|-------------|
| HR_PC2 | 10.0.0.2/24 |
| HR_PC3 | 10.0.0.3/24 |
| HR_PC4 | 10.0.0.4/24 |

Default Gateway: 10.0.0.254
DNS Server: 10.0.0.100

- 6) Assign the following IP addresses to Factory PCs (10 Marks)

| PC | IP |
|-------------|--------------|
| Factory_PC1 | 10.0.0.11/24 |
| Factory_PC2 | 10.0.0.12/24 |
| Factory_PC3 | 10.0.0.13/24 |

Default Gateway: 10.0.0.254
DNS Server: 10.0.0.100

- 7) Ping from HR_PC2 to Office_PC3 and write the result. (10 Marks)
- 8) Try to ping from HR_PC1 to Office_PC3. If unsuccessful, try to correct the error(s) and write the recovery steps. (15 Marks)
- 9) There is a problem in HR_PC4 link. Correct it and write the recovery steps. (15 Marks)
- 10) Go to the HR_PC4, Desktop tab --> Web Browser and type the URL **www.test.lk** and write the result. (15 Marks)

***** Upload your answer file to the Course Management System**

