FAST

Course Code: CL307	Course Name: Computer Networks Lab	
Instructor Name:		
Student ID:	Section:	
Total Time: 120 Minutes	Total Points: 50 points	

Instructions:

- Read each question completely before answering it.
- Cheating in any case will lead to F-GRADE as per university rule.

[10 Points]

Question#1: MCQ's

1. This is not an application layer protocol:
   A. HTTP   B. SMTP   C. UDP   D. None

2. IP assigned for a client by DHCP server is
   A. for a limited period   B. for unlimited period
   C. not time dependent   D. none of the mentioned

3. Which class of IP address provides a maximum of only 65534 host addresses per network ID?
   A. Class A   B. Class B   C. Class C   D. Class D

4. What is the address range of a Class B network address in binary?
   A. 101XXXXX   B.0XXXXXXXX   C.110XXXXXX   D.1110XXXX

5. DHCP uses UDP port ____ for sending data to the server.
   A. 66   B.67   C. 68   D. 69

6. SSH is a protocol used for:
   A. Remote Login   B. Network of Telephones   C. Television on net   D. Teleshopping site

7. Which of the following commands sets the secret password to Cisco?
   A. enable secret password Cisco   B. enable secret cisco
   C. enable secret Cisco   D. enable password Cisco

8. Identify the correct order in which the following actions take place in an interaction between a web browser and a web server.
   1. The web browser requests a webpage using HTTP.
   2. The web browser establishes a TCP connection with the web server.
   3. The web server sends the requested webpage using HTTP.
   4. The web browser resolves the domain name using DNS.
   A. 4,2,1,3   B. 1,2,3,4   C. 4,1,2,3   D. 2,4,1,3

9. Secure shell (SSH) network protocol is used for
   A. secure data communication   B. remote command-line login
   C. remote command execution   D. all of the mentioned

10. FTP is built on _____ architecture
  A. Client-server   B. P2P   C. Both of the mentioned   D. None of the mentioned

Please Write MCQ's Answer here.

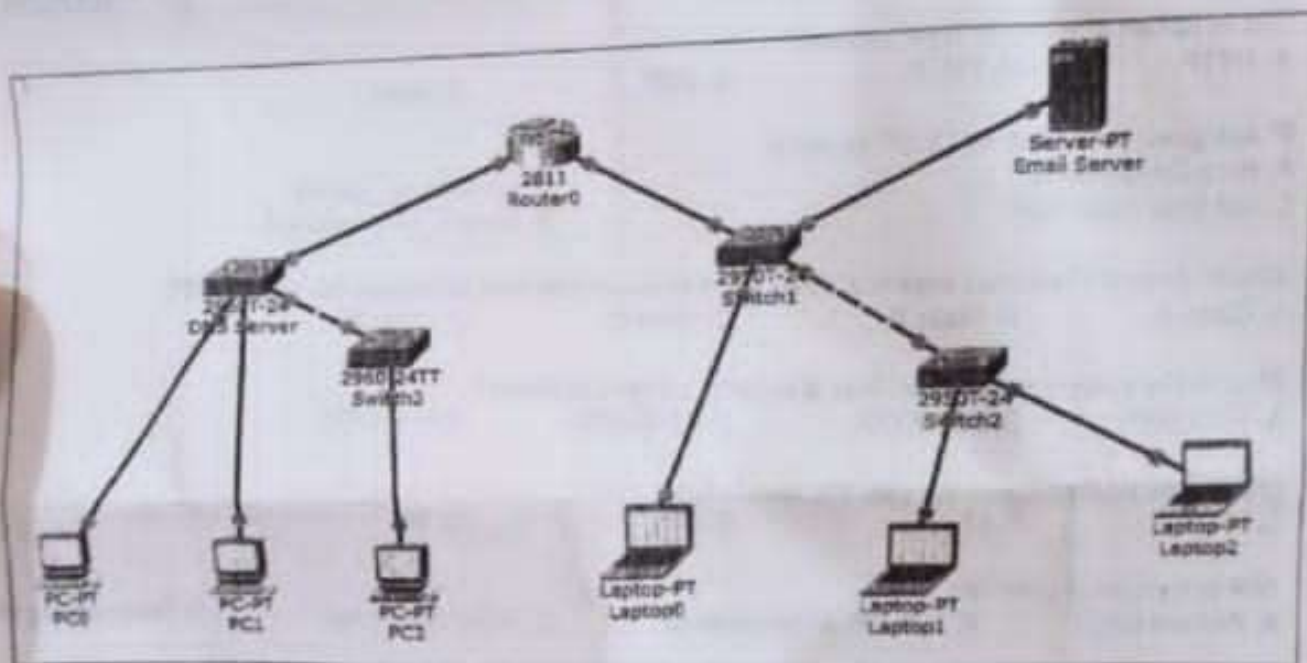| 1	2	3	4	5	6	7	8	9	10

[15 Points]

Question#2:

IP ADDRESS SHOULD BE YOUR ROLLNO. Example

RollNo: K18-1328 IP Address 13.28.0.0 On one side of router--- 14.28.0.0 On another side of router

RollNo: K19-1156 IP Address 11.56.0.0 On one side of router ---12.56.0.0 On another side of router

RollNo: K18-0358 IP Address 3.58.0.0 On one side of router --- 4.58.0.0 On another side of router

Fig#1: Network topology

FAST National University of Computing & Emerging Sciences has given the advertisement on the newspaper for the hiring of a system officer. You have applied for this position and eventually you were called for the interview. The interviewer named Dr. ABC has given you a following topology to implement on cisco packet tracer. According to given topology, Dr. ABC has informed you to configure the network and assigned the IPs to the PCs by creating pool on Router interface and in those network where the server is attached you have to assign IP Addresses using that server. He also tells you that you have to save the first 10 IP Addresses for some future work. Dr. ABC also inform you that there is a loop hole in the given scenario and after gone through the scenario you have figure it out that there are some authoritative issues while uploading the file on the server through PCs. So you have created a super admin having all the credential of the server. So, you checked the username by login it and uploading a file named K18XXXX.bin or K18XXXX.txt from Laptop6 and get that file from PC3. Now you have to propose a solution for this scenario to get this job of system officer.

Question#3   Trouble shooting   [points 25]

The Network Engineer has been hired in a University and on the very next day the problem has occurred that end devices are not communicating with each other. Moreover, the students are unable to send email to teachers about their queries. He has to find the issue and fix it so that end devices again start communicating with each other and Students and teachers can communicate easily.

Please open *Trouble_shooting file 2.pkt.*

BEST OF LUCK ☺