Rev/Eng/04

01. 198.168.10.0 and 198.168.10.32 are two network IP address which are function in adjacent two LAN. This network consist 08 subnets. Write down the other six subnet IP addresses.

02. 198.168.10.0 and 198.168.10.64 are first two network IP address which are function in adjacent two LAN. This network consist 04 subnets. Write down the other two net work IP addresses.

03. 198.168.10.128 is a Network IP address which is belongs to two subnet. Write down the other network IP address.

04. Assume subnet has facility to connect 62 devices. What will be the subnet mask of this network.

05. Suggest suitable subnet mask to connect 2000 computer devices.

06. Suggest suitable subnet mask to connect 200 computer devices.

07. Organization has 198.168.10.25 IP address. They have three department namely as manufacturing, account and marketing. They expect to establish networks for each department according to fulfil the following requirements

Department	Computer	Printer
Manufacturing	90	-
Account	55	02
Marketing	4	01

Use following table to write down the IP addresses details related with the above subnets.

	Network IP	First host IP	Last host IP	Broadcast IP	Subnet Mask
Manufacturing					
Account					
Marketing					

08. 198.168.10.0/27 is a ip address and subnet mask after did the subnetting. Using these information provide answers for following questions.

   8.1 Write down the network IP addresses.
   8.2 Write down the broadcasting IP address of each subnet.
   8.3 Write down host address range ?
   8.4 Write down classful subnet mask ?

09. Using following details write down the classful subnet mask.
198.168.10.25/29

10. Organization currently using 172.16.24.25 IP address. They need to establish 64 subnets each should have 1022 computer devices. After subnetting process completed, write down the following information's related with first two subnets.

	Network IP	First Host IP	Last Host IP	Broad casting IP	Subnet Mask
Subnet 01					
Subnet 02					

11. Read the following case study and answer the questions

City hospital expects to establish a new software system to improve their efficiency and effectiveness. System consists following functions.

When admitting a patient to the hospital, the reservation clerk will check the availability of rooms using the room's details file. He then updates both room's details and patient details files. To make an appointment with a consultant for channeling, patient meets the clerk who uses and updates both patient details and consultant details files. Lab clerk updates both patient details files. Lab clerk updates both patient details and patient reports files. Cashier uses all the files to prepare bills when a patient is discharged from the Hospital and prepare payments to the consultants.

Administrator can view all the details of the hospital records. System can maintain consultant's information; details of patients who are admitted and also contains details of the patient who came back for checkups. Lab reports are generated from the system and bill details are calculated through the system.

Draw the Context diagram (DFD$_0$) for the City Hospital Management System.