**CCNA PROJECT 2**

1.AAA is a fast-growing company with more than two million customers globally. The company deals in buying and selling of food items, which are basically operated from the headquarter. The company is intending of opening a branch near a local village (county) in Kenya, thus the company requires a young I.T graduate to design the network for the branch, the network is intended to operate separately from the HQ network.

Being a small network, the company has the following requirements during implementation,

* One router and switch to be used (All Cisco products).
* 3 Departments (**Admin/IT**, **Finance/HR** and **Customer service/Reception**.
* Each department is required to be in different VLANs
* Each department is required to have wireless network for users.
* Host devices on the are required to obtain IPV4 addresses automatically.
* Devices in all departments are required to communicate with each other.
* Assign the first subnet to **Admin/IT** department, second subnet to **Finance/HR** and third subnet to **Customer service/Reception.**
* Secure the remained switch ports after assigning some to different VLANS.

Assume the ISP gave out a base network of **192.168.10.0***,* you as young Network engineer who has been hired, design and implement a network considering the above requirements.(80 marks)