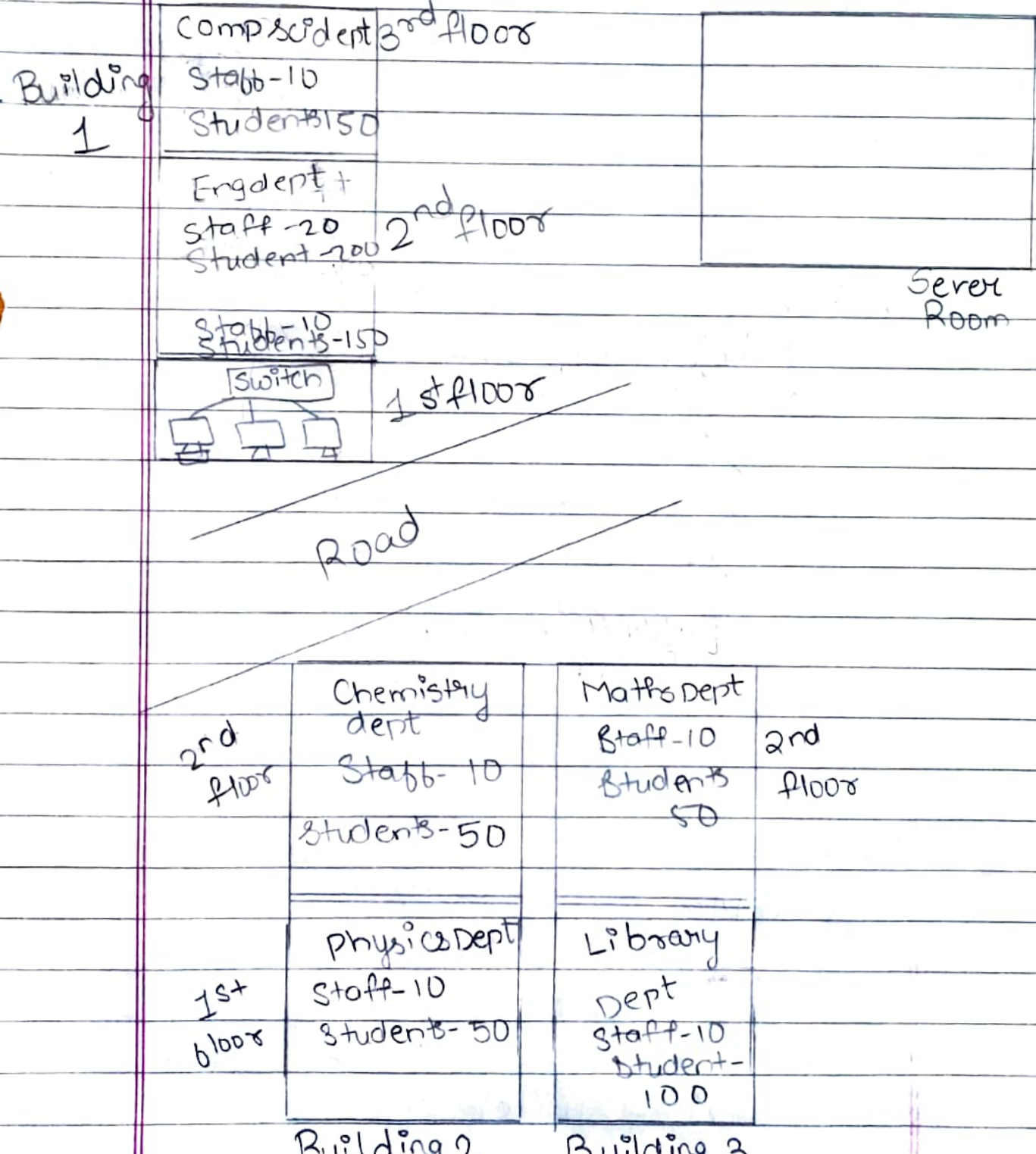
Assignment-1.

Date: / /

Campus connection.

1 Prepare a detailed report including n/w diagrams.

→ There are 3 building i.e 1, 2, 3 and every campus has its server room.



On every floor there will be switch. to get connected with devices. (Acess switch
∴ Therefore we will require atmost 137 switches for Building 1 engg dept as there as 280 pc working. {each switch as 24 ports and outoff which 21 or 22 we can use to avoid traffic} In the same way Building 2 will require 6 switches no. of PC = 130. For Building 3 require 8 switches no. of PC 170.
~~For server room also require switch~~
we can use distributed switch for every building to connect Access switch of that building In this we can use 3 distributed switch. One will connect engg dept, comp science and math dept to share appln, ~~or~~ 2nd switch for Physics and chemistry dept. and 3rd for library it is optional as library dont have to share information

For connection we can use fibre optic cable as we put it under road. It is expensive but can give us quality.
And for speed distribute switch give 1000 mbps

Topology - Tree topology
Type of cable - ~~switch, PC~~, Fibre cable
N/w device - switch, PC.

(2)

3 Prepare cost of project and also suggest alternate solutions to reduce the cost

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	Item	Cost of 1	Quantity	Total
A	Switch	7000	27	189000
	D. Switch	9000	4	36000
	Fiber Cable	1500 ~~/m~~ % 300m	~~500~~ 1000 m	5000
				230000/-

This are appor. value ~~we~~
We can reduce it by using more port switch (48 port) so cost of switch will reduce by doing this we can high speed also and no. of access switch will be ~~s~~ reduce