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Subject

Intro to Architecture  
& town planning

Instructor

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Q1) Take any building from internet, put its picture in Microsoft Word and explain its positive and negative points what could be done to make it more attractive?

Ans The advantages of this building is

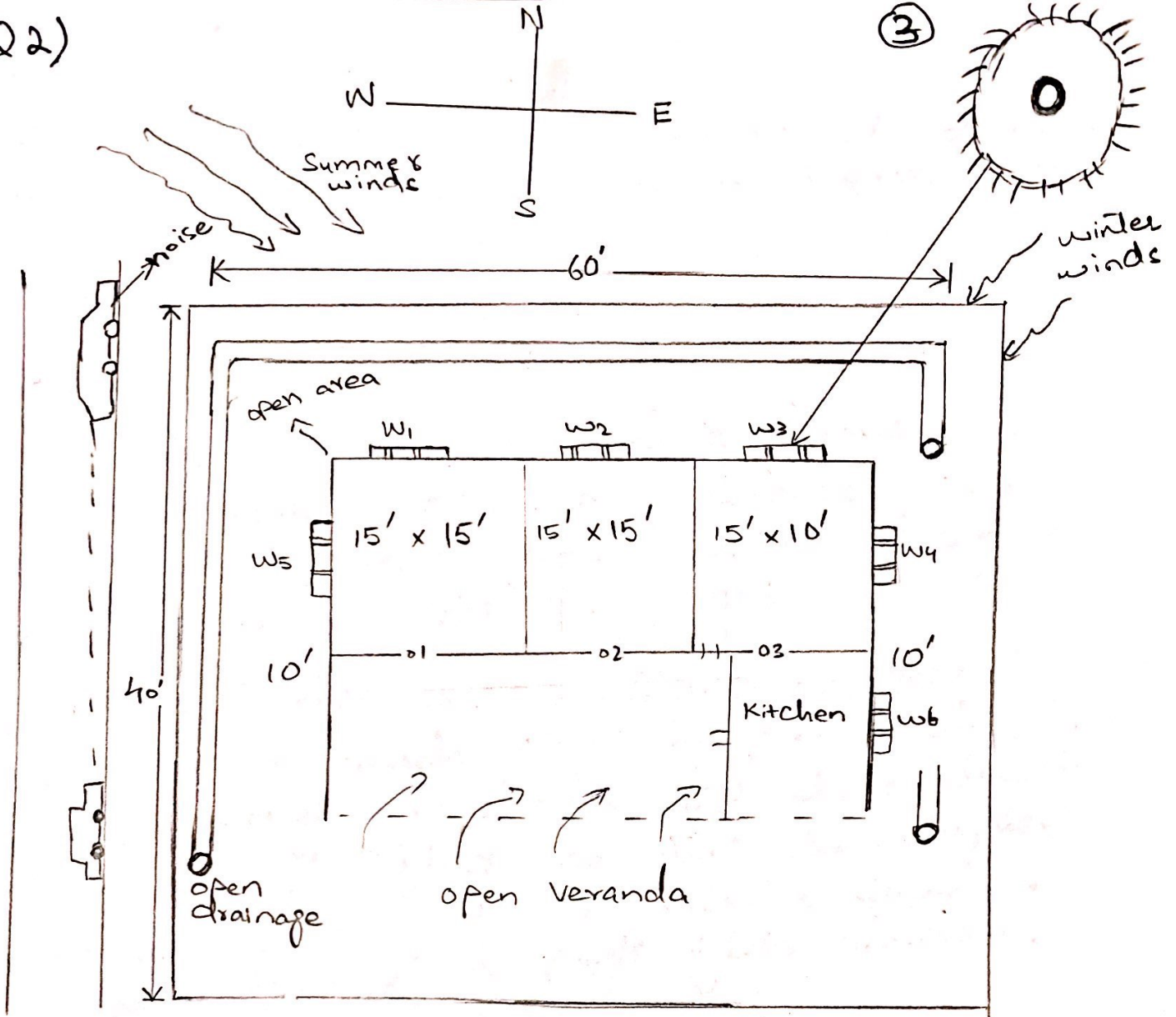
- 1) Having almost double floor area under same perimeter or w.r.t single floor houses.
- 2) Better temperature regulation or less control of ground floor even if terracing (technical) of first floor has not been done.
- 3) In an unorganized or unplanned neighbourhood where set backs and heights are not regulated or followed or in row housing, where houses are circling the concerned house then it is a slight advantage to follow a similar pattern adopted by others. Ventilation and lighting of floors above ground floor will be better.
- 4) Multi storied houses are known to cater a better population density. More people on a relative piece of

land. In cities, due to high land cost and rising population influx, duplex or multi storied buildings are a quick solution.

Negative points:-

- 1) It increase the cost of a house as strong foundation, bigger service core and stair cases have to be designed. Maintenance cost also rises.
- 2) Many times a compromise on carpet area has to be made due to the above. Thus even though a duplex will have double the ground floor area but the duplex's ground floor will be smaller than a ground floor of a single floor residence on the same plot.
- 3) A top most story of a multistoried house blocks sunlight and ventilation to some extent. This can be taken to court, for legal action, in some countries and ventilation and lightning is human requirement.
- 4) A top most story of a multistoried house is the hottest portion in composite climate if terracing (technical) has not been done.

Q2)



road

$$= 60 \times 40 \Rightarrow 2400 \text{ ft}^2$$

$$60 - 10 - 10 = 40'$$

15' rooms

10' veranda

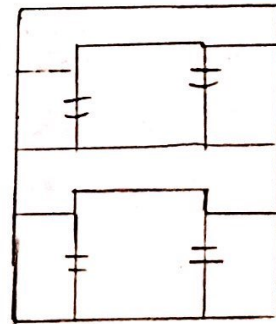
$$15 \times 15 \times 10 \Rightarrow 2250$$

$$\text{room 1) } = 15' \times 15'$$

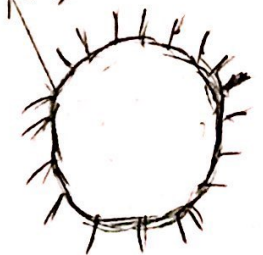
$$\text{room 2) } = 15' \times 15'$$

$$\text{room 3) } = 15' \times 10'$$

two story buildings



Blocking solar radiation



G Noise:-

- 1) Noise is reduced by a cavity wall which we used in all external walls of building.
- 2) Also noise is reduced by a heavy shrubs tree.
- 3) We can use acoustic material in interior.

Smell control:-

- 1) Bad smell control is reduced by plantation of big trees and as well as some small good smelling ones.

Summer wind:-

Summer can be reduced by high tree plantation.

Sun problem:-

Reduces sun in summer and maximum in winter following steps should be followed

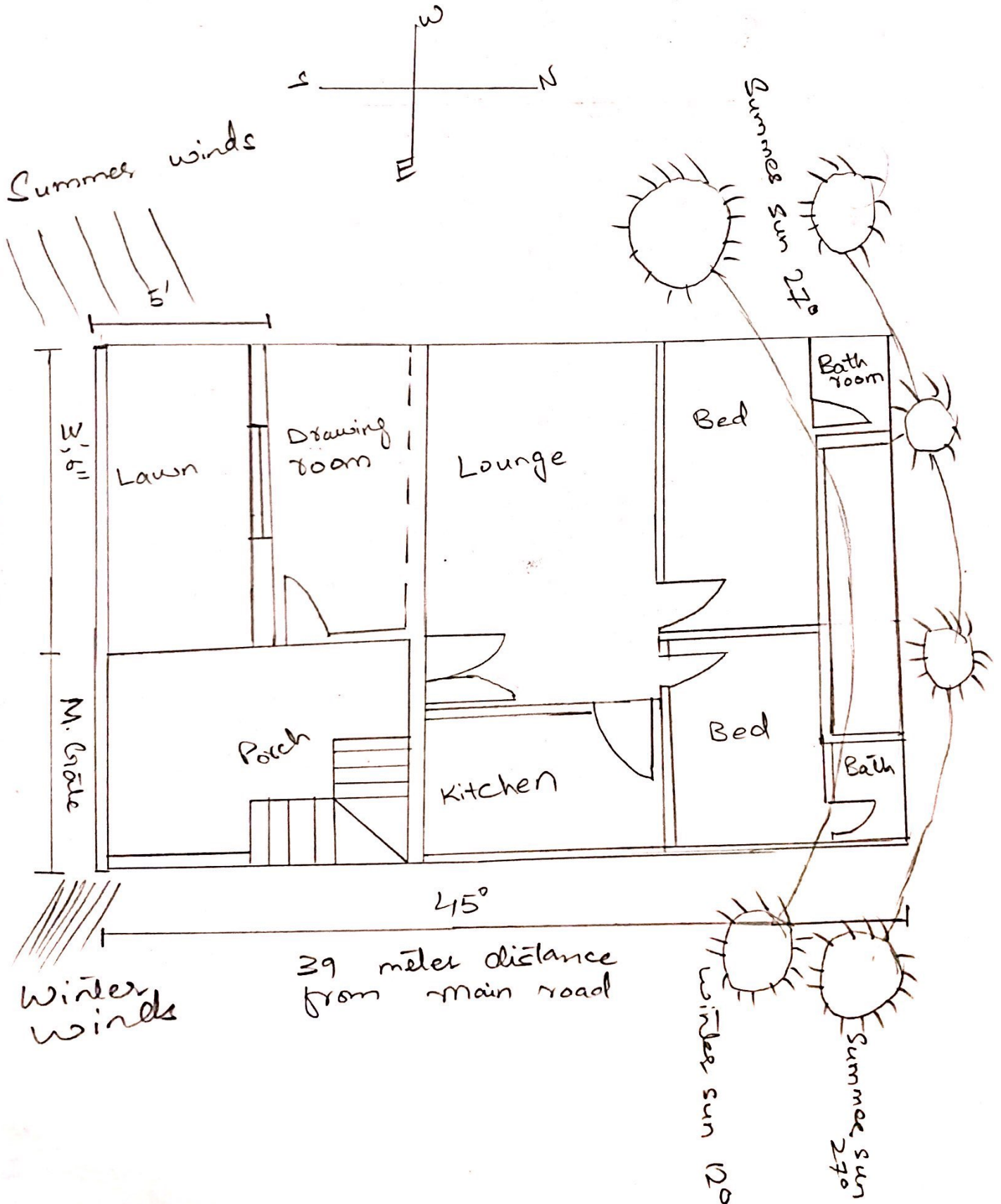
- 1) The house story height is = 15'
- 2) Keep the window for bedrooms as set to maintain that air is reduce in summer and maximum in winter.

Q3)

6

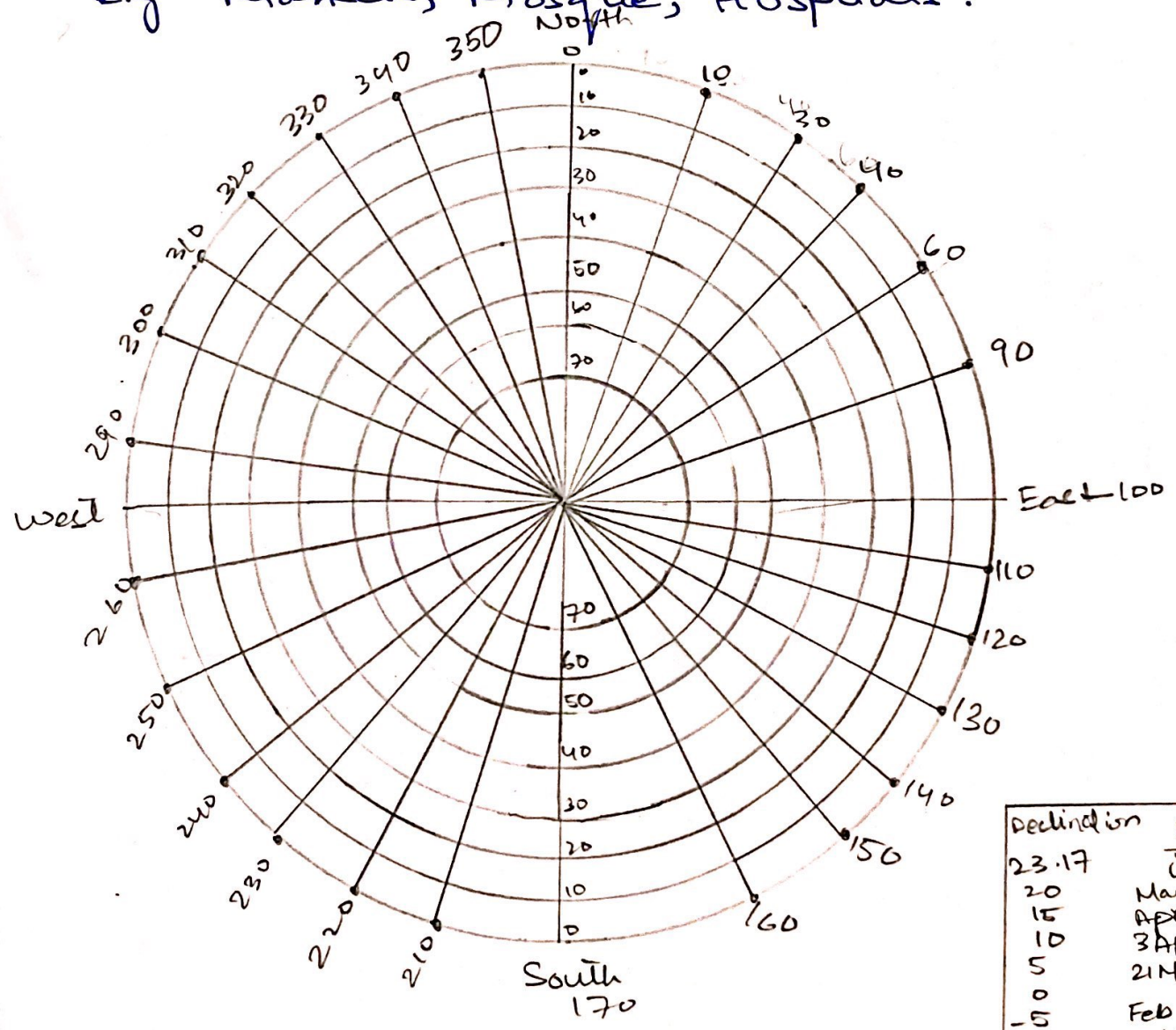
City : Peshawar.

Site related Details :-



- 1) Sun direction
- 2) Wind direction
- 3) Drainage flow
- 4) Neighbourhood
- 5) Noise : No problem

Access : Everything easily available  
 E.g Markets, Mosque, Hospitals.



Solar Path Diagram

Declination	Approx dates
23.17	June 22
20	May 21 - 24 July
15	Apr 16 - 28 Aug
10	3 Apr - 10 Sep
5	21 Mar - 23 Sep
0	Feb 9 - 22 Nov
-5	21 Jan - 22 Nov
-10	22 Dec
-15	
-20	
-23.17	