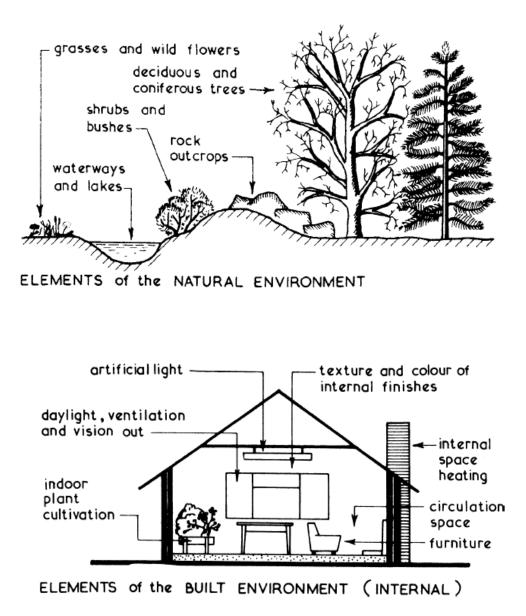
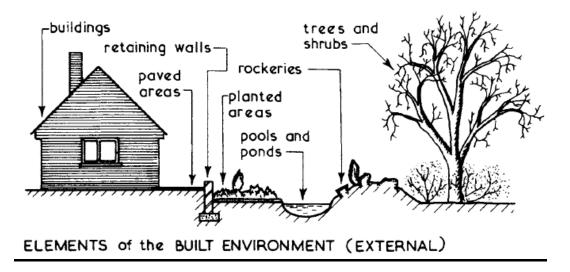
# FAQ's

**1.** What do you understand by Environment? Explain in detail about types of Environment and its components with illustrations.





# **Environment:**

Surroundings which can be natural, manmade or combination of these.

# **Built Environment**:

Created by man with or without the aid of natural environment.

## Natural Environment:

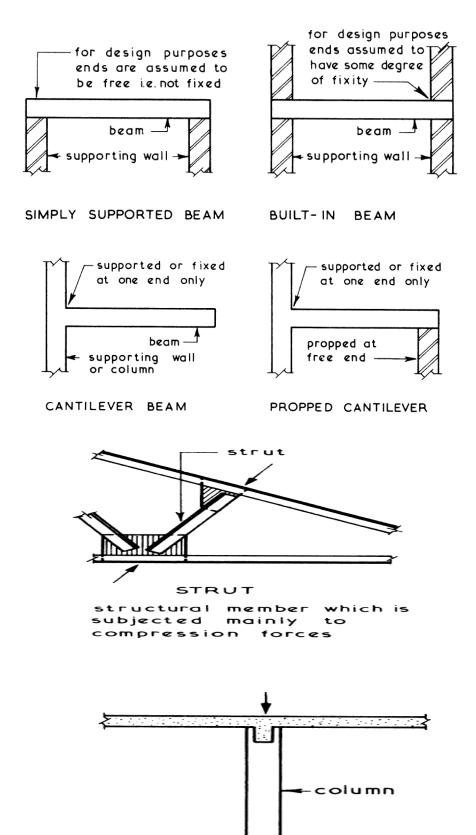
The natural environment encompasses all living and non-living things occurring naturally. The term is most often applied to the Earth or some part of Earth. This environment encompasses the interaction of all living species, climate, weather, and natural resources that affect human survival and economic activity.

# 2. Explain different type of structures with illustrations.

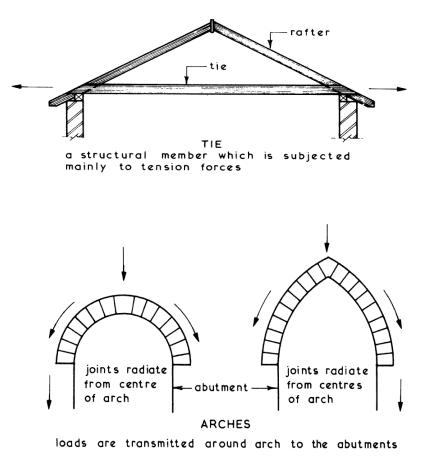
**Structure:** A structure is an arrangement and organization of interrelated elements in a material object or system or a built environment.

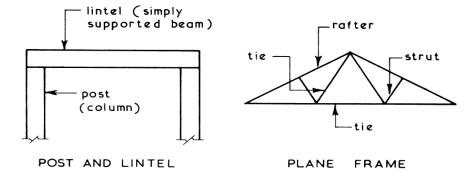
**Structural System:** The term structural system or structural frame refers to load-resisting sub-system of a structure. The structural system loads through interconnected structural components or members.

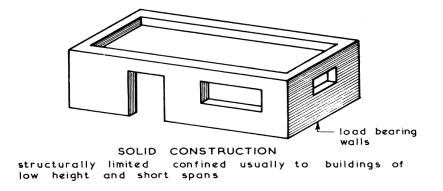
## **Basic Types of Structure:**

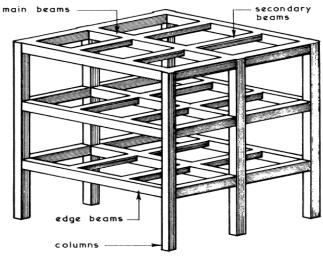


VERTICAL STRUT usually called a column stanchion or pier

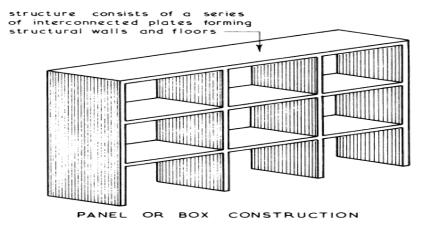


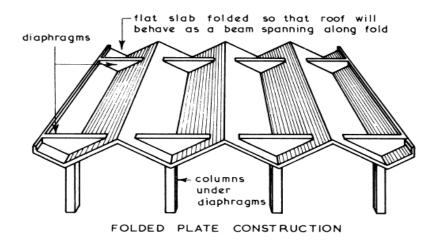




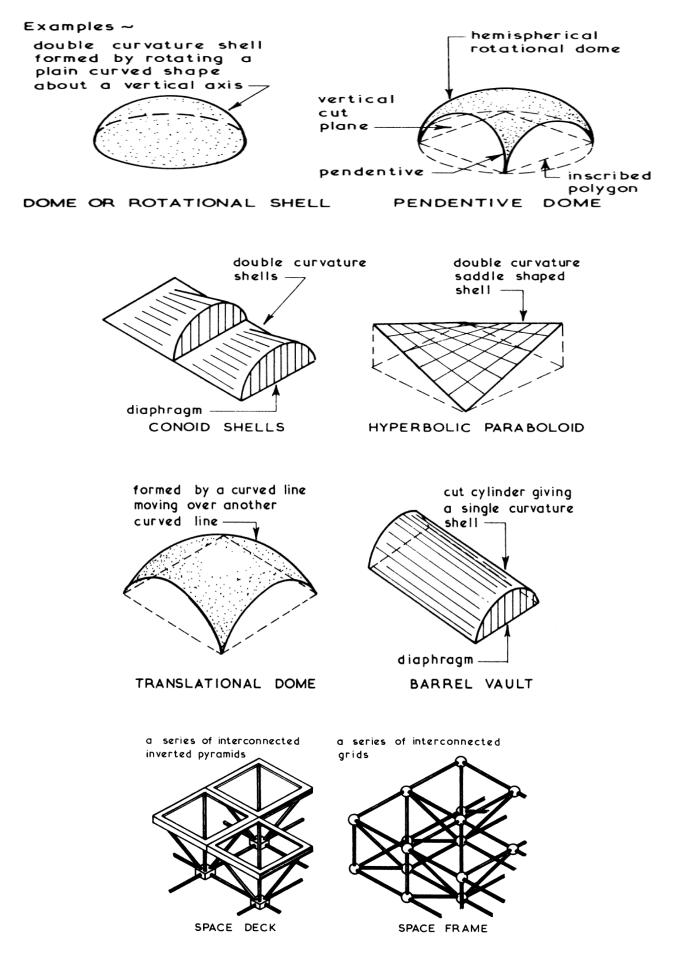


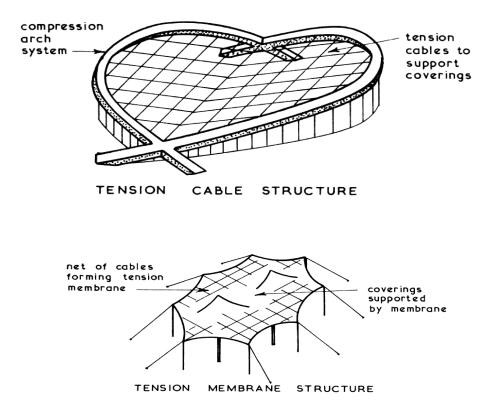
FRAMED OR SKELETAL CONSTRUCTION





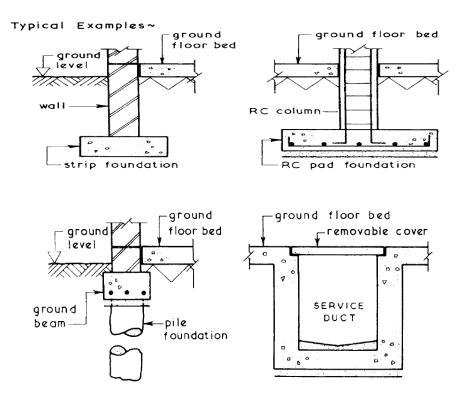
Shell Roofs ~ these are formed by a structural curved skin covering a given plan shape and area.

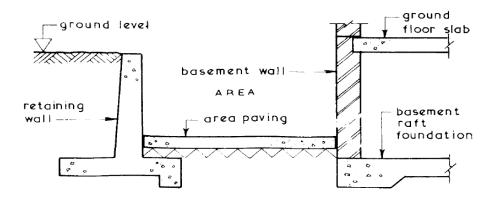




#### Substructure:

Substructure ~ can be defined as all structure below the superstructure which in general terms is considered to include all structure below ground level but including the ground floor bed.

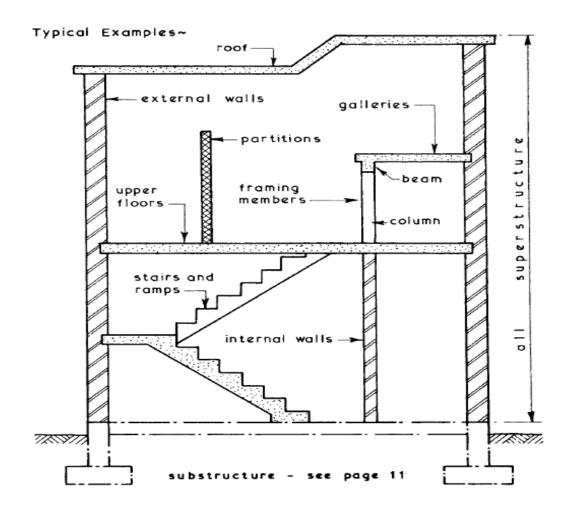




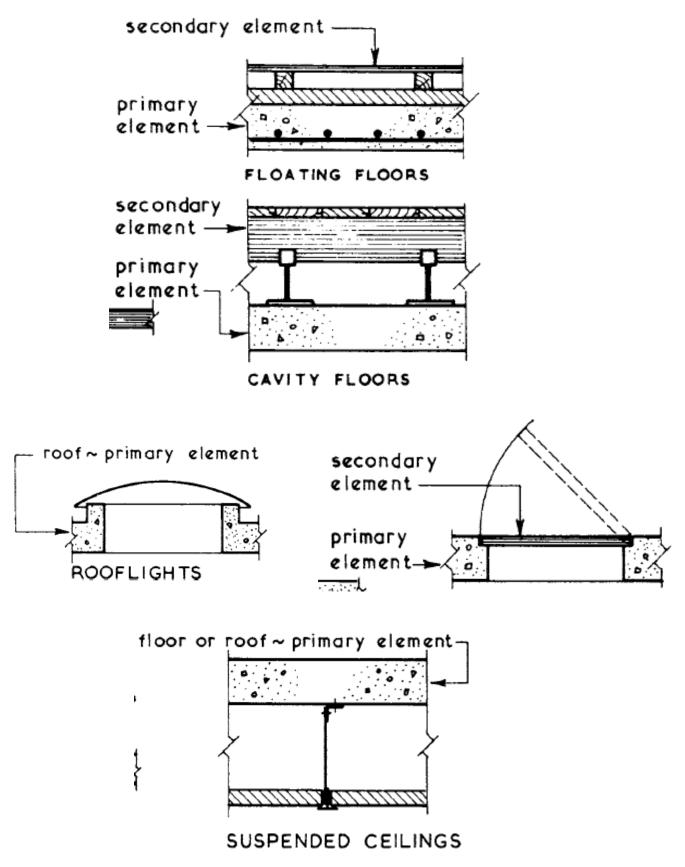
Primary Elements ~ basically components of the building carcass above the substructure excluding secondary elements, finishes, services and fittings.

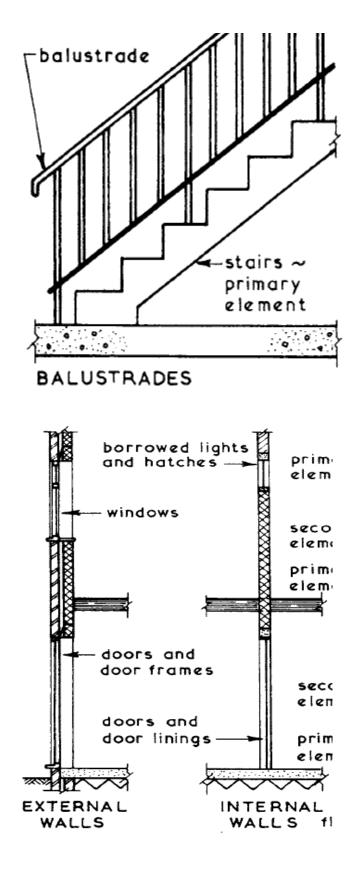
Superstructure ~ can be defined as all structure above substructure both internally and externally.

Primary elements of Super Structure



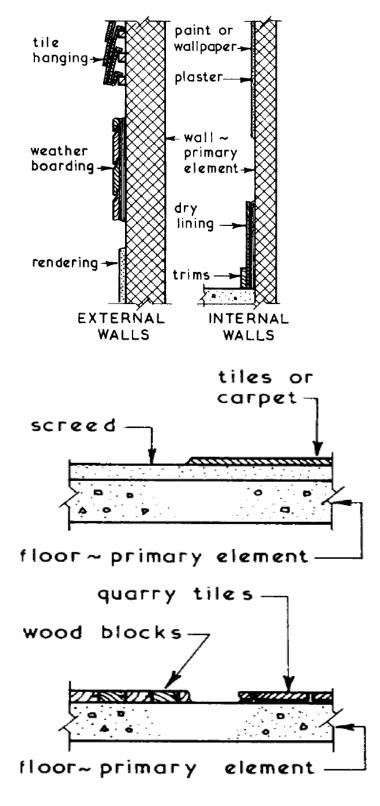
Secondary Elements ~ completion of the structure including completion around and within openings in primary elements.



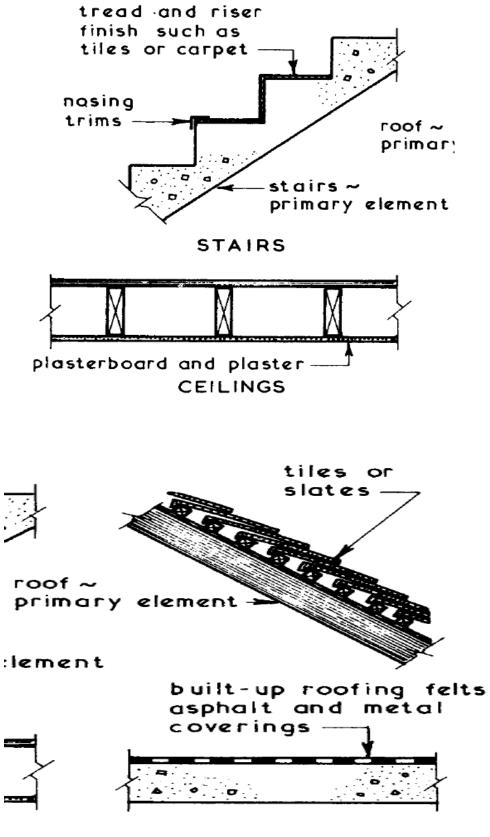


## Finish:

Finish ~ the final surface which can be self finished as with a trowelled concrete surface or an applied finish such as floor tiles.



FLOORS

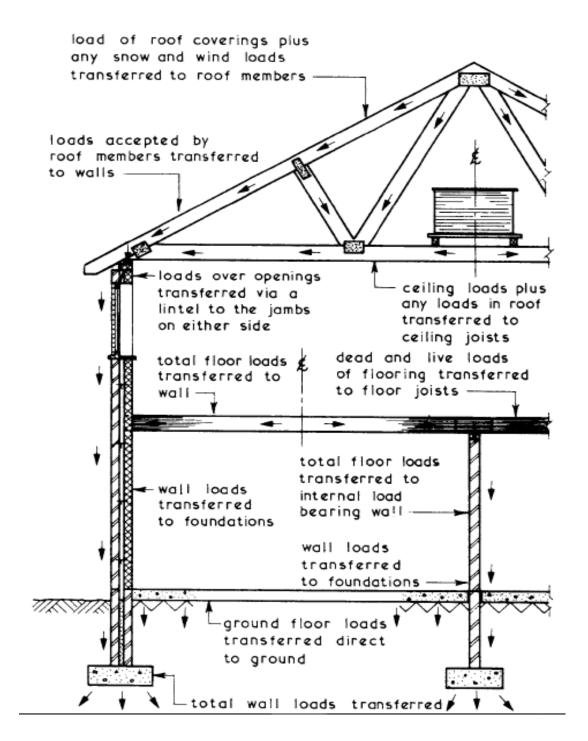


ROOFS

#### **Component Parts & Functions:**

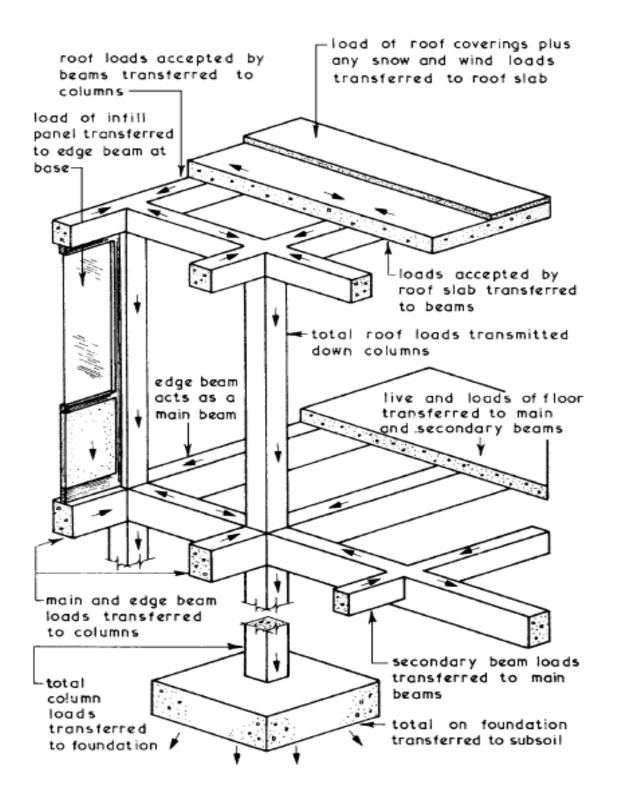
#### **Example:**

## **Typical Domestic Structure**

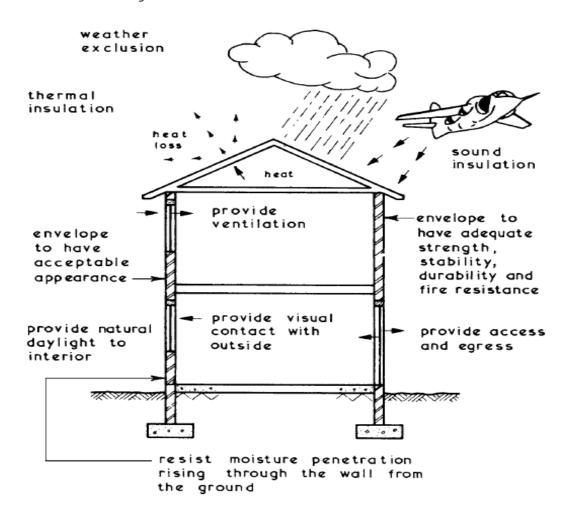


## **Example:**

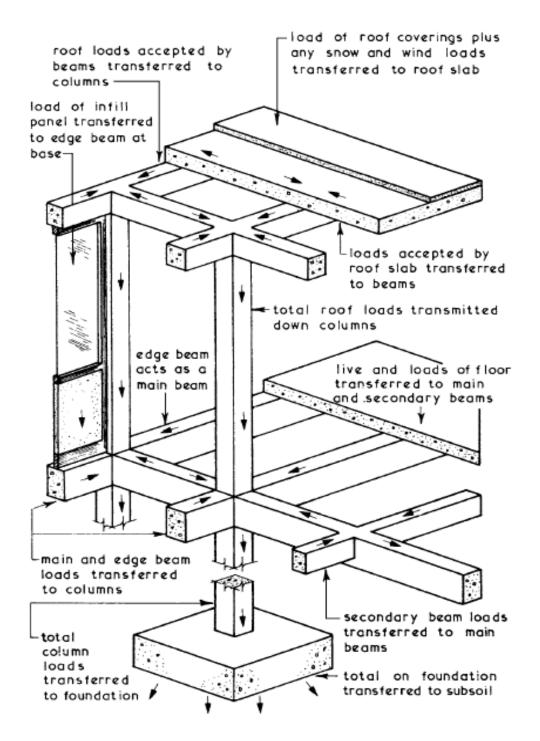
#### **Typical Framed Structure**

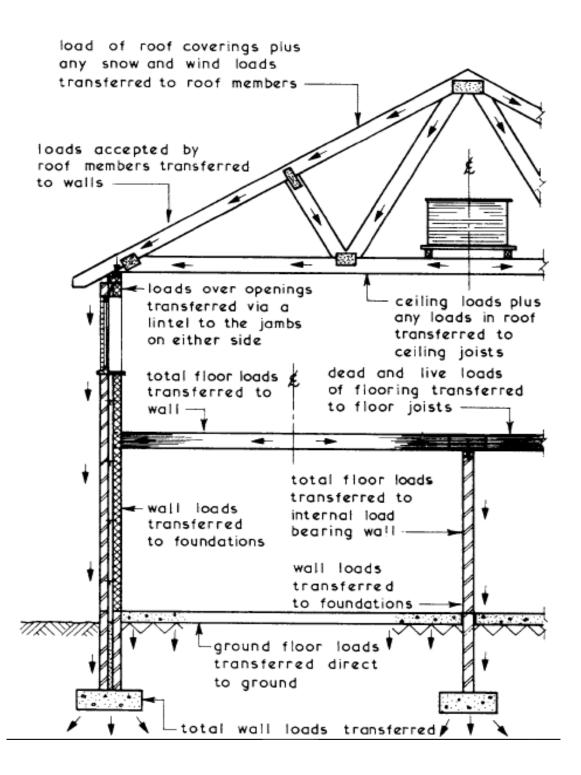


External Envelope ~ consists of the materials and components which form the external shell or enclosure of a building. These may be load bearing or non-load bearing according to the structural form of the building.



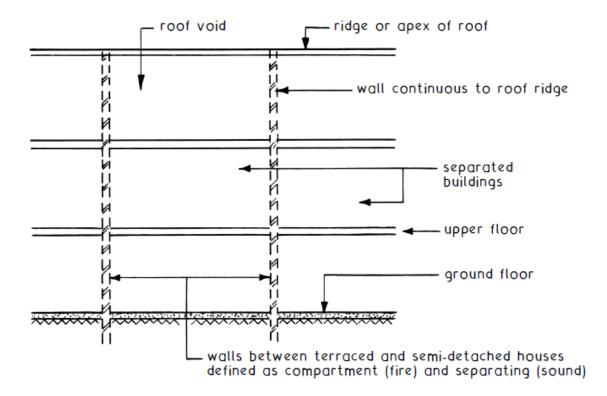
# **3. Explain load distribution in structures with examples of a Framed Structure and a Conventional Dwelling unit.**



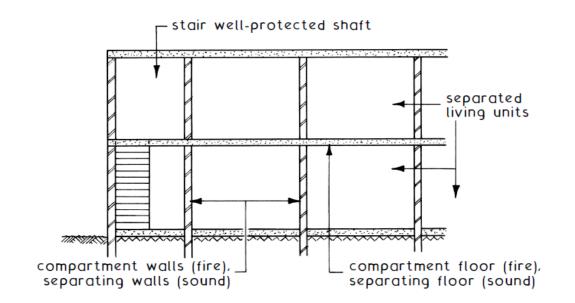


## 4. Briefly explain the concept of Compartmentation.

#### **Dwelling Houses**



**Flats** 



For non-residential buildings, compartment size is limited by floor area depending on the building function (purpose group) and height. Compartment ~ a building or part of a building with walls and floors constructed to contain fire and to prevent it spreading to another part of the same building or to an adjoining building. Separating floor/wall ~ element of sound resisting construction

between individual living units.