

Building Technology.

IIIrd mid TERM.

Q. No. 1 write down the different types of Building.

Ans. Building are classified as different types.

(1) Group-A → Residential Building.

Residential building are classified is Five sub groups.

A-1 :- Lodging & Rooming house.

A-2 :- one or two family private dwelling.

A-3 :- Dormitories.

A-4 :- Apartment house.

A-5 :- Hotels.

(ii) Group-B :- educational building.

(iii) Group-C :- Institutional building.

(iv) Group-D :- Assembly buildings.

(v) Group-E :- Business buildings.

(vi) Group-F :- Mercantile buildings.

(vii) Group G :- Industrial buildings.

(viii) Group H :- storage building.

(ix) Group-I :- Hazardous building.

Q. No. 2 write the brief description of any four type window & any two types door.

Window :-

Ans. (i) casement window :- These are the window, the shutters of which open & close like & doors & the construction of casement window is similar to the door construction.

(ii) Dormer window :- These are the window provided on the slopping roofs & the main purpose to providing dormer window is to admit light and air to room within or below the roof truss.

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(iii) clerestorey window :- This type window are provided near top of main roof the ~~clearest~~ clerestorey window provided ventilation to the inside of the room as the front in varandha.

(iv) gable window :- These are the window provided at gable ends

Doors :-

- (i) collapsible door :- collapsible door are ~~construct~~ consist of mild steel & collapsible door are very useful for compounds residential building, school, shed, godown, workshop, public building, etc.
- (ii) sliding door :- In a sliding door shutter slide on the side with the help of runner and guide rails. A sliding door does not cause any obstruction during movement and it is used for entrance of godown shed, shop, showroom etc.

Q. NO. 3 write short notes of any three.

- (i) shoring (ii) underpinning (iii) scaffolding (iv) putlogs.

Ans. (i) shoring :- Some time the structure are to be temporary supported. This arrangement is known shoring. & shoring are classified three types.

- (i) Raking & inclined shoring.
(ii) Flying & Horizontal shoring.
(iii) Dead & vertical shoring.

(ii) underpinning :- The placing of new foundation below an existing foundation or the process of strengthening the existing foundation is known as the underpinning. following methods are use in underpinning.

- (i) pit method.
(ii) pile method.

(iii) scaffolding :- When the height of structure above floor level exceed more than 1.5 mtr. then a temporary structure is made to a safe working platform for the workers. and to provided a limited spaces for the storage of plant & building material. The temporary framework is known as a scaffolding.

COMPONENT of scaffolding :-

- (i) standards (ii) ledgers (iii) putlogs. (iv) transoms.
(v) braces (vi) bridle (vii) guard rails (viii) top boards.
(ix) raker.

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R.K. Wani
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