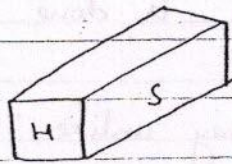


* Brick Masonry :-

(A) Stretcher :-



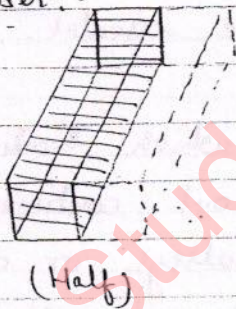
The longer face of the brick is termed as "Stretcher".

(B) Header :- The shorter face of the brick is termed as header.

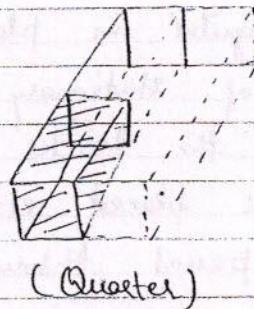
(C) Closer :- The portion of the brick cut along its length is termed as closer.

Types of Closer :-

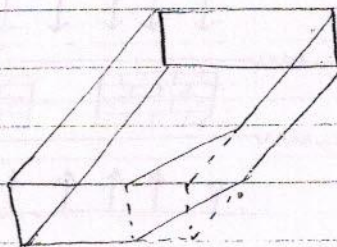
(i) Queen Closer :-



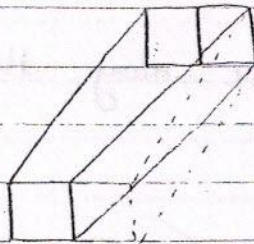
(ii) Queen Closer Quarter



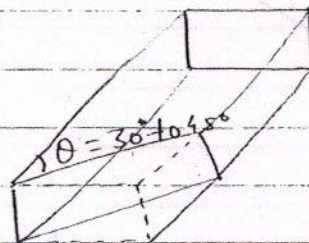
(iii) King Closer



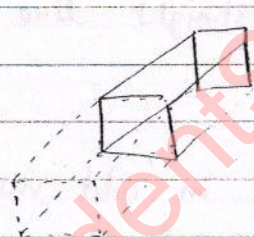
(iv) Bevelled Closer:-



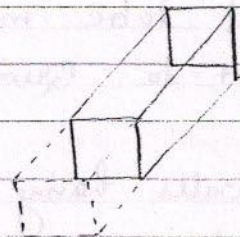
(v) Mitered Closer.



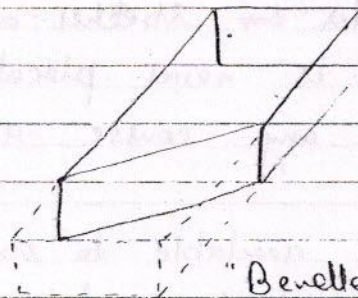
(vi) Bat:- It is the portion of the brick cut along its width.



Half Bat.



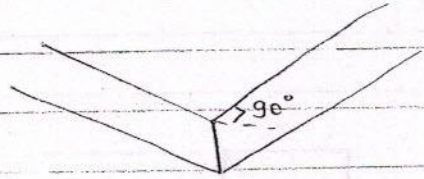
Three Quarter Bat.



"Bevelled Bat"

(E) Quoin :-

It is exterior angle along the face of wall and greater than $\geq 90^\circ$

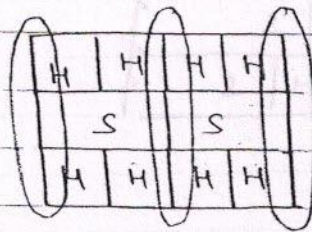
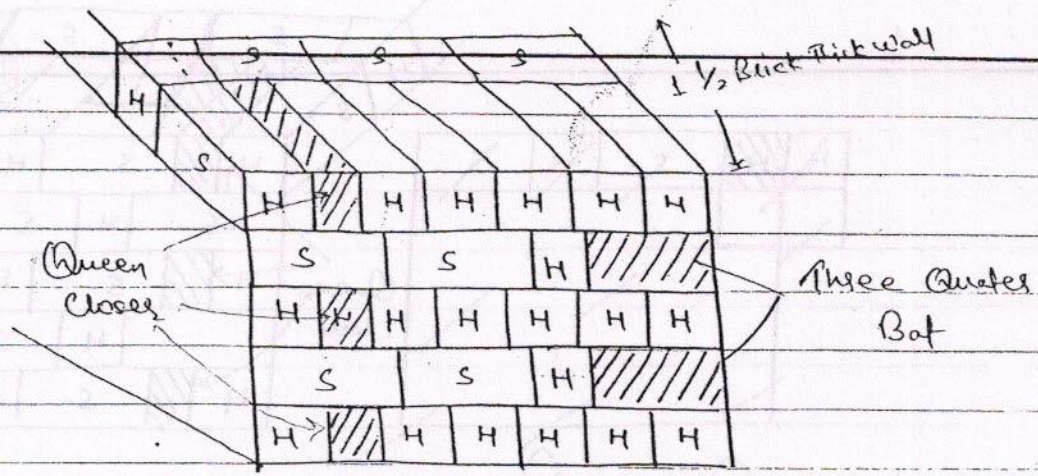


* Arrangement of Bondings:-

(i) English Bond :- It is arrangement of bonding that consist of alternate courses of header and stretchers placed one over each other.

In order to break the alignment of vertical joint to be in single straight line queen closer is placed next to Quoin Header.

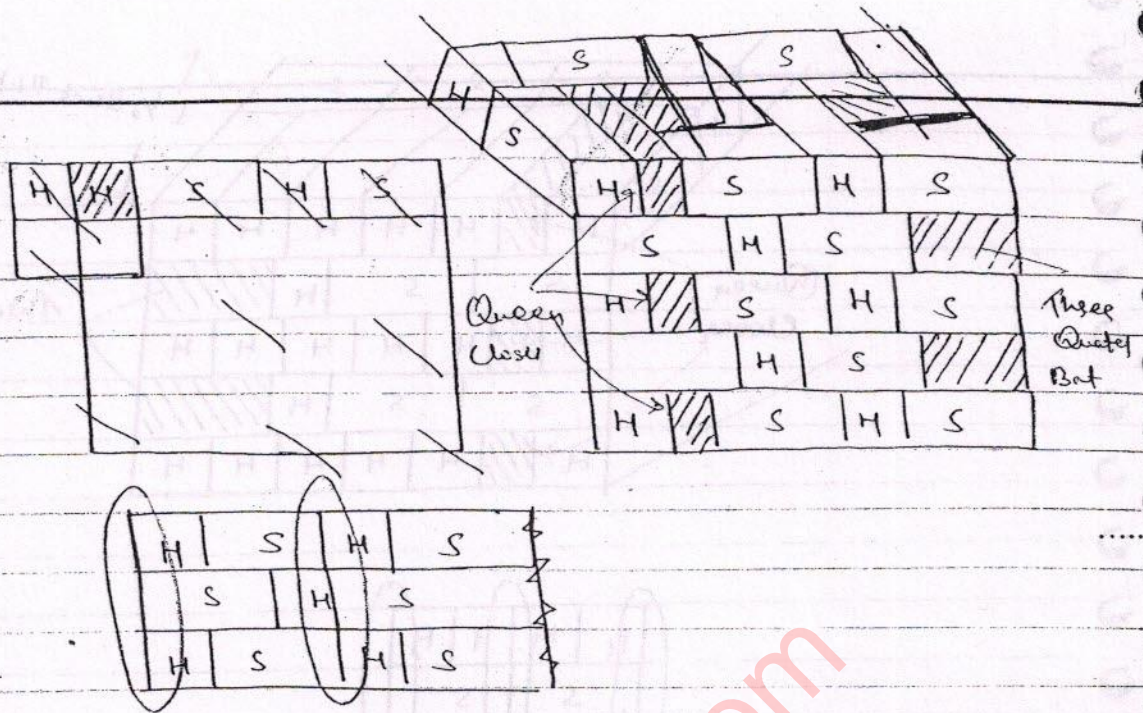
- (i) For the walls having thickness in odd multiples of $\frac{1}{2}$ brick thick each course consist of header on one face and Header or stretchers on other face.
- (ii) Queen closer is never placed either at start or at an end of any course as it is liable to get displaced.
- (iii) Minimum lap available to stretchers in each course is $\frac{1}{4}^{\text{th}}$ the length of brick.



- (2) **Flemish Bond** :- It is the arrangement of bonding in which each course consist of alternate header and stretchers placed next to each other.

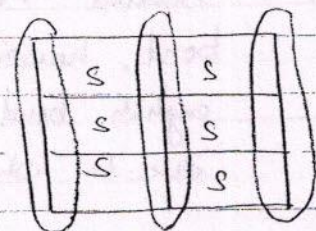
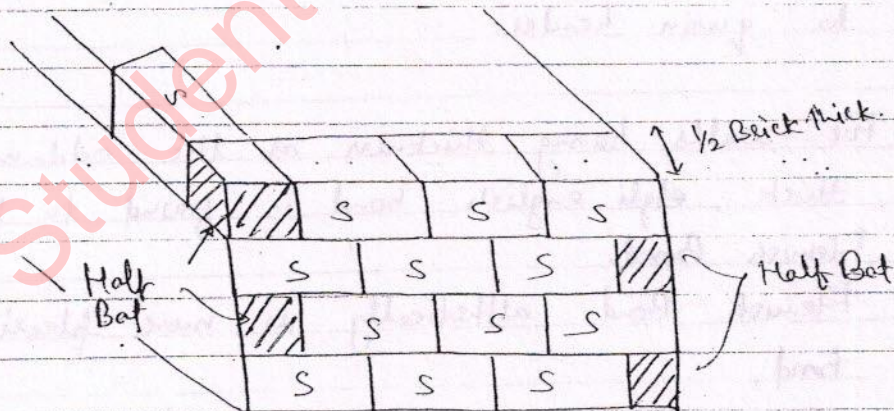
In order to break the alignment of vertical joint to be in single straight line, Queen closer is placed 1 next to quoin header.

- (i) For walls having thickness as the odd multiples of $\frac{1}{2}$ brick thick, english bond is found to be stronger than Flemish Bond.
- (ii) Flemish Bond aesthetically is more pleasing than english bond,
- (iii) Skilled Masonary work is req^d for construction of flemish bond, however it is found to be more economical than english bond as no. of half bats are used in this case due to which wastage is less comparatively.



(3) Stretcher Bond :- It is the arrangement of bonding in which Bricks are laid along the stretchers in each course.

- (i) In order to break the alignment of vertical joints to be in single straight line half bat are used in Alternate ~~joint~~ courses.



(4) Header Bond :- It is the arrangement of bonding in which each course consist of Header.

(i) In order to break the alignment of vertical joints to be in straight line 3 Quarter bats ~~are~~^{is} used in each course

