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Q : 1) The recommended imposed load on staircase in residential buildings as per IS 875 is

A : 5.0 kN/m²

B : 3.0 kN/m²

C : 1.5 kN/m²

D : 1.3 kN/step



Q : 2) Sum of tread and rise must lie between

A : 300 mm to 350 mm

B : 400 mm to 450 mm

C : 500 mm to 550 mm

D : 600 mm to 650 mm



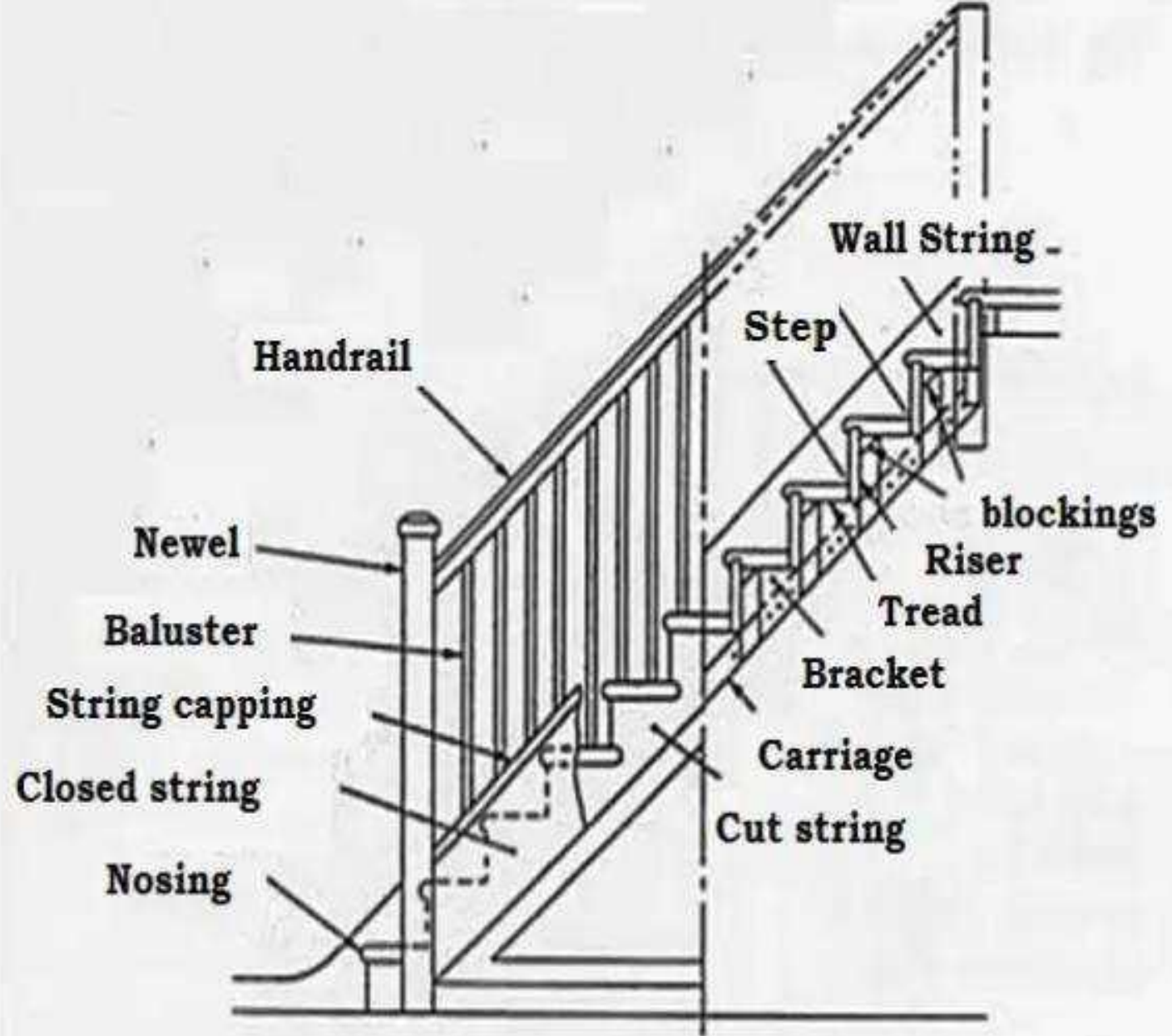
Q : 3) Nosing is the outer projection of:

A : Riser

B : Tread

C : Baluster

D : Landing





Q : 4) The vertical posts placed at the top and bottom ends of a flight supporting the hand rails, are known as:

A : Baluster

B : Newel post

C : Balustrade

D : Railing



Q : 5) The vertical members fixed between steps and handrail in a staircase is known as

A : Balusters

B : Strings

C : Newel posts

D : Soffits



Q : 6) Minimum width of landing should be:

A : Equal to width of stairs

B : Half the width of stairs

C : Twice the width of stairs

D : One-fourth the width of stairs



Q : 7) The number of steps in a flight generally should not be less than-

A : 2

B : 3

C : 5

D : No limit



Q : 8) The maximum number of steps in a flight of a staircase generally should be

A : 10

B : 12

C : 15

D : No limit



Q : 9) A series of steps without any landing in their direction is called

A : Riser

B : Tread

C : Nosing

D : Flight



Q : 10) Which material is recommended for a staircase in an industrial workshop?

A : Timber

B : Steel

C : Aluminium

D : RCC



Q : 11) Maximum pitch in any staircase is

A : 20°

B : 35°

C : 40°

D : 45°



Q : 12) The imposed floor load acting on staircase for residential and educational building is to be considered as-

A : 2.0 kN/m² and 3.0 kN/m²

B : 3.0 kN/m² and 2.0 kN/m²

C : 4.0 kN/m² and 3.0 kN/m²

D : 3.0 kN/m² and 4.0 kN/m²



Q : 13) The tapering steps which are provided to change the direction of a strain is:

A : landing

B : Spiral steps

C : Winders

D : Going



Q : 14) The lean-to-roof is suitable for a maximum span of:

A : 3 m

B : 2.5 m

C : 3.5 m

D : 4 m



Q : 15) In any good staircase, the maximum and minimum pitch respectively should be:

A : 90° and 0°

B : 75° and 5°

C : 60° and 10°

D : 40° and 25°

Q : 16) Which of the following is/are incorrect about a staircase?

- (i) String is the part of tread which is projecting beyond the face of the riser**
- (ii) Soffit is a sort of additional moulding provided under the nosing or tread to beautify the step in elevation**
- (iii) Baluster is a member supporting the hand rail**
- (iv) Newel post is a vertical member at the ends of flights**

A : Only (i)

B : (i) and (ii)

C : (i) and (iii)

D : (ii) and (iv)



Q : 17) Doglegged stairs are

A : half turn stairs

B : Quarter turn stairs

C : Straight stairs

D : Three quarter turn stairs



Q : 18) Which among the following is a step used for changing the direction of a stair?

A : Flight

B : Nosing

C : Landing

D : Winder



Q : 19) Beams supporting steps of a stair are generally known as

A : Spandrel beam

B : Winder beam

C : Step beam

D : Stringer beam



Q : 20) A multi storey building has floor to floor height is 3300 mm. If the riser is 150 mm then the number of treads required for each storey is

A : 21

B : 22

C : 23

D : 24



Q : 21) The term 'string' is used for

A : The under side of a stair

B : Outer projecting edge of a tread

C : A sloping member which supports the steps in a stair

D : A vertical member between two treads



Q : 22) In public building the maximum riser is limited to:

A : 10 cm

B : 12 cm

C : 15 cm

D : 18 cm



Q : 23) The vertical distance between two consecutive treads in a staircase is called as:

- A : Riser**
- B : Waist**
- C : Nosing**
- D : Soffit**

Q : 24) What is the effective span of staircase, supported at each end by landing spanning parallel with the risers, if the width of landing is 2.5 m, width of starting passage is 1.5 m and going of the stair is 2.2 m?

A : 6.2 m

B : 4.2 m

C : 3.95 m

D : 4.5 m



Q : 25) In residential buildings, the rise may vary between

A : 150 to 180 mm

B : 200 to 250 mm

C : 500 to 75 mm

D : 100 to 120 mm

E : 275 to 300 mm



Q : 26) How many treads would be there in a straight stair connection between two floors with height different of 2.6 m? The rise is 15 cm.

A : 23

B : 24

C : 22

D : 26



Q : 27) Half turn stairs are the stairs which change their direction through:

A : 90°

B : 180°

C : 270°

D : 45°



Q : 28) The best and the common material to be used as damp-proofing material is

A : Cement concrete

B : Bitumen

C : Paraffin wax

D : Cement solution



Q : 29) Percentage of imposed load to be considered in seismic weight consideration for imposed uniformly distributed floor load above 3 kN/m^2

A : 25

B : 30

C : 50

D : 75



Q : 30) What is trowelling?

A : The final operation in finishing a floor

B : The initial operation in finishing a floor

C : An intermediate operation in the finishing of a floor

D : Has nothing to do with floors



Q : 31) Decoupling of the superstructure from substructure resting on a shaking ground is called:

A : Base isolation

B : Damping

C : Shock absorption

D : Retrofitting



Q : 32) A floor using 3-6 mm marble chips known as

A : Marble floor

B : Chip floor

C : Mosaic

D : Terrazzo floor



Q : 33) In concrete flooring, the sand cushion on earthen surface should be provided in thickness of about:

A : 10 cm

B : 15 cm

C : 20 cm

D : 25 cm



Q : 34) Marble chips in coloured cement forming the floor covering material is called:

A : Terrazzo

B : Mosaic

C : Linoleum

D : Magnesite



Q : 35) The type of flooring suitable for the use in theatres and public libraries and other places where noiseless floor covering is desire-

A : Wooden flooring

B : Linoleum flooring

C : Cork flooring

D : None of these



Q : 36) Sulphate attack over a building material is caused by salts of:

A : Calcium

B : Magnesium

C : Sodium

D : Potassium



Q : 37) What is floor area ratio?

A : Ratio of total area of all floors to plinth area

B : Ratio of plinth area to plot area

C : Ratio of ground floor area to plot area

D : Ratio of total floor area of all floors to plot area



Q : 38) Epoxy injection technique is used for

A : Repairing the water retaining structures

B : Sealing of large cracks

C : Sealing of narrow cracks

D : All of the above

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