

1. Which of the following is not a component of a floor?

- a) Beams
- b) Columns
- c) Slab
- d) Footings

Answer: b) Columns

Explanation: Columns are vertical structural elements that support the load from the floors above and transfer it to the foundation, not part of the floor itself.

2. Which material is commonly used for constructing terrazzo floors?

- a) Wood
- b) Concrete
- c) Marble chips
- d) Rubber tiles

Answer: c) Marble chips

Explanation: Terrazzo floors are typically constructed using a mixture of marble chips and either cement or epoxy resin.

3. Which type of flooring is known for its high durability and water resistance?

- a) Tiled flooring
- b) Mud flooring
- c) Rubber flooring
- d) Glass flooring

Answer: a) Tiled flooring

Explanation: Tiled flooring, especially ceramic or porcelain tiles, are known for their durability and resistance to water.

4. What is the primary material used in the construction of a brick flooring?

- a) Cement
- b) Clay bricks

c) Marble

d) Timber

Answer: b) Clay bricks

Explanation: Brick flooring is constructed using clay bricks laid in patterns and secured with mortar.

5. Which flooring material is commonly used in areas where impact absorption is necessary, such as gymnasiums?

a) Marble flooring

b) Rubber flooring

c) Tiled flooring

d) Terrazzo flooring

Answer: b) Rubber flooring

Explanation: Rubber flooring provides good impact absorption and is often used in areas where safety is a concern.

6. Which type of floor construction utilizes pre-cast concrete elements that are assembled on-site?

a) Jack arch floors

b) Ribbed or Hollow tiled flooring

c) Pre-cast concrete floors

d) Timber floors

Answer: c) Pre-cast concrete floors

Explanation: Pre-cast concrete floors involve the manufacturing of concrete elements off-site and then assembling them on-site.

7. Filler joist floors are characterized by:

a) Open spaces between joists

b) Solid concrete slabs

c) Steel beams with concrete infill

d) Timber beams with wooden infill

Answer: a) Open spaces between joists

Explanation: Filler joist floors have open spaces between the joists, which are filled with lightweight materials like concrete or foam blocks.

8. Which of the following is a common repair technique for damaged floors?

a) Replacing entire floor sections

b) Applying a fresh coat of paint

c) Adding decorative rugs

d) Ignoring minor damages

Answer: a) Replacing entire floor sections

Explanation: Repairing damaged floors often involves replacing sections that are beyond repair to maintain structural integrity.

9. What is the primary purpose of a roof covering for pitched roofs?

a) Structural support

b) Waterproofing

c) Insulation

d) Aesthetic enhancement

Answer: b) Waterproofing

Explanation: Roof coverings for pitched roofs primarily serve to protect the underlying structure from water infiltration.

10. Which type of roof construction utilizes steel trusses for support?

a) Pitched roofs

b) Single roofs

c) Double or purlin roofs

d) Trussed roofs

Answer: d) Trussed roofs

Explanation: Trussed roofs use steel trusses to support the roof structure, providing

strength and stability.

11. Which type of roof construction features a series of parallel beams supported by vertical posts?

- a) Pitched roofs
- b) Single roofs
- c) Double or purlin roofs
- d) Trussed roofs

Answer: c) Double or purlin roofs

Explanation: Double or purlin roofs consist of parallel beams called purlins supported by vertical posts or columns.

12. What is the primary advantage of using steel roof trusses in construction?

- a) Lightweight
- b) High cost-effectiveness
- c) Low maintenance
- d) Natural aesthetic appeal

Answer: a) Lightweight

Explanation: Steel roof trusses offer high strength-to-weight ratio, making them lightweight yet capable of supporting heavy loads.

13. Which repair technique is commonly used for fixing minor roof leaks?

- a) Applying sealant
- b) Installing additional insulation
- c) Replacing entire roof sections
- d) Painting over the damaged area

Answer: a) Applying sealant

Explanation: Sealants are often applied to minor roof leaks as a quick and temporary solution to prevent further water ingress.

14. What is the primary function of roof insulation?

- a) Waterproofing
- b) Structural support
- c) Thermal regulation
- d) Aesthetic enhancement

Answer: c) Thermal regulation

Explanation: Roof insulation helps regulate indoor temperature by reducing heat transfer between the interior and exterior of the building.

15. Which type of roof covering is commonly used for flat terraced roofs?

- a) Asphalt shingles
- b) Metal sheets
- c) EPDM rubber membrane
- d) Clay tiles

Answer: c) EPDM rubber membrane

Explanation: EPDM rubber membrane is a popular choice for flat roofs due to its durability and waterproofing properties.

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