1. What type of staircase features a waist slab with unequal flights and different support conditions?

a) Cantilevered staircase
b) Spiral staircase
c) Floating staircase
d) L-shaped staircase

Explanation: The correct answer is option c) Floating staircase. Floating staircases typically have a waist slab connecting unequal flights with various support conditions, offering a visually striking design while maintaining structural integrity.

2. In a slabless tread-riser staircase, what replaces the traditional staircase components?

a) Metal rods
b) Glass panels
c) Steel cables
d) Wooden beams

Explanation: The correct answer is option c) Steel cables. Slabless tread-riser staircases utilize steel cables instead of traditional steps and risers, creating an open and minimalist aesthetic while ensuring stability.

3. Which type of staircase is known for its self-supporting design without the need for external support?

a) Spiral staircase
b) Floating staircase

c) L-shaped staircase
d) Straight staircase

Explanation: The correct answer is option b) Floating staircase. Floating staircases are renowned for their self-supporting structure, relying on hidden supports within walls or other structural elements, offering a visually stunning appearance.

4. What distinguishes a slabless tread-riser staircase from traditional staircases?

a) Lack of handrails
b) Absence of a waist slab
c) Use of unconventional materials
d) Absence of steps and risers

Explanation: The correct answer is option d) Absence of steps and risers. Slabless tread-riser staircases forego traditional step and riser components, featuring an open design often supported by steel cables or other innovative structural elements.

5. Which type of staircase is characterized by steps projecting from a central support column?

a) Spiral staircase
b) L-shaped staircase
c) Floating staircase
d) Zigzag staircase

Explanation: The correct answer is option a) Spiral staircase. Spiral staircases feature steps radiating from a central support column, offering a compact and space-saving design suitable

for various architectural settings.

6. In a staircase with a waist slab, what purpose does the slab serve?

a) Provides structural stability
b) Aesthetic enhancement
c) Conceals support mechanisms
d) None of the above

Explanation: The correct answer is option a) Provides structural stability. The waist slab in a staircase serves as a structural element, connecting and stabilizing unequal flights while enhancing the overall stability of the staircase.

7. Which staircase type is most suitable for homes with limited space due to its compact design?

a) L-shaped staircase
b) Floating staircase
c) Straight staircase
d) Zigzag staircase

Explanation: The correct answer is option c) Straight staircase. Straight staircases are ideal for homes with limited space, as they offer a simple and space-efficient design without the need for complex configurations.

8. What distinguishes an equal flight staircase from other staircase designs?

a) Symmetrical step dimensions

b) Continuous handrails
c) Alternating step materials
d) Circular landing platforms

Explanation: The correct answer is option a) Symmetrical step dimensions. Equal flight staircases feature steps with consistent dimensions, offering a uniform and balanced design suitable for various architectural styles.

9. What is a characteristic feature of unequal flight staircases?

a) Varying step widths
b) Alternating tread materials
c) Lack of handrails
d) Uniform riser heights

Explanation: The correct answer is option a) Varying step widths. Unequal flight staircases feature steps with different widths, accommodating varying floor levels or architectural constraints while maintaining structural integrity.

10. Which support condition is commonly associated with a floating staircase?

a) Wall-mounted brackets
b) Central support column
c) Floor-mounted brackets
d) Hidden steel frame

Explanation: The correct answer is option d) Hidden steel frame. Floating staircases often utilize a hidden steel frame or other internal support mechanisms, allowing them to appear

unsupported while maintaining structural stability.