

NHBRC Test Questions & Answers PDF

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1. What is the minimum thickness of a concrete floor slab on ground as per SANS 10400?

- A.) 40 mm
- B.) 50 mm
- C.) 75 mm
- D.) 100 mm

Answer: C.) 75 mm

Explanation: SANS 10400-B prescribes a minimum of 75 mm for ground-bearing slabs.

Reference: SANS 10400-B Structural Design

2. Which soil type generally requires special foundation design due to collapsibility?

- A.) Gravel
- B.) Dolomitic soil
- C.) Sandy loam
- D.) Hard rock

Answer: B.) Dolomitic soil

Explanation: Dolomitic soils are prone to sinkholes and require raft or piled foundations.

Reference: NHBRC Part H Foundations

3. Which test is commonly used to check the moisture content of site soil?

- A.) Atterberg limits

- B.) Speedy moisture test
- C.) Sieve analysis
- D.) California Bearing Ratio

Answer: B.) Speedy moisture test

Explanation: The speedy moisture tester gives rapid on-site moisture results.

Reference: Geotechnical Field Testing Standards

4. What is the minimum lap length for reinforcing bars in tension?

- A.) 20d
- B.) 30d
- C.) 40d
- D.) 50d

Answer: C.) 40d

Explanation: Standard lap length in tension is 40 times the bar diameter (40d).

Reference: SANS 10100 Concrete Design

5. What is the primary purpose of a cavity in a cavity wall?

- A.) Sound insulation
- B.) Structural strength
- C.) Moisture control
- D.) Cost reduction

Answer: C.) Moisture control

Explanation: Cavities reduce moisture penetration and improve insulation.

Reference: SANS 10400-K Masonry Walls

6. What is the minimum overlap for roof tile battens at a joint?

- A.) 25 mm
- B.) 50 mm
- C.) 75 mm
- D.) 100 mm

Answer: B.) 50 mm

Explanation: Tile battens should overlap at least 50 mm to ensure structural continuity.

Reference: SANS 10400-L Roof Structures

7. The slope of a horizontal drainage pipe (100 mm) must not be less than?

- A.) 1:20
- B.) 1:40
- C.) 1:60
- D.) 1:80

Answer: B.) 1:40

Explanation: A slope of 1:40 ensures adequate self-cleansing velocity in sewer pipes.

Reference: SANS 10400-P Drainage

8. What is the minimum height of a handrail in a staircase?

- A.) 750 mm
- B.) 850 mm

- C.) 900 mm
- D.) 1000 mm

Answer: C.) 900 mm

Explanation: Handrails should be installed at a height of at least 900 mm for safety.

Reference: SANS 10400-M Stairways

9. Which SANS part regulates energy efficiency in buildings?

- A.) Part T
- B.) Part XA
- C.) Part C
- D.) Part H

Answer: B.) Part XA

Explanation: SANS 10400-XA deals with energy efficiency and insulation requirements.

Reference: SANS 10400-XA Energy Efficiency

10. What is the maximum rise per step allowed in a residential staircase?

- A.) 170 mm
- B.) 180 mm
- C.) 200 mm
- D.) 220 mm

Answer: C.) 200 mm

Explanation: Maximum riser height in residential staircases is 200 mm.

Reference: SANS 10400-M Stairways

11. What is the minimum bearing length of a timber beam on a masonry wall?

- A.) 50 mm
- B.) 75 mm
- C.) 100 mm
- D.) 125 mm

Answer: ■ Answer available in the FULL VERSION (Paid Pack).

Reference: SANS 10400-L Roof Structures

12. Which test is used to determine the load-bearing capacity of soil directly on site?

- A.) Proctor test
- B.) Plate load test
- C.) Slump test
- D.) Core cutter test

Answer: ■ Answer available in the FULL VERSION (Paid Pack).

Reference: NHBRC Geotechnical Testing

13. What is the minimum thickness of a damp-proof course (DPC)?

- A.) 200 microns

- B.) 250 microns
- C.) 300 microns
- D.) 375 microns

Answer: ■ Answer available in the FULL VERSION (Paid Pack).

Reference: SANS 10400-K Damp Proofing

14. In hot climates, what shading coefficient is recommended for north-facing windows?

- A.) 0.2
- B.) 0.5
- C.) 0.7
- D.) 0.9

Answer: ■ Answer available in the FULL VERSION (Paid Pack).

Reference: SANS 204 Energy Efficiency

15. What is the maximum horizontal spacing of wall ties in cavity walls?

- A.) 450 mm
- B.) 600 mm
- C.) 750 mm
- D.) 900 mm

Answer: ■ Answer available in the FULL VERSION (Paid Pack)

Reference: SANS 10400-K Masonry Walls