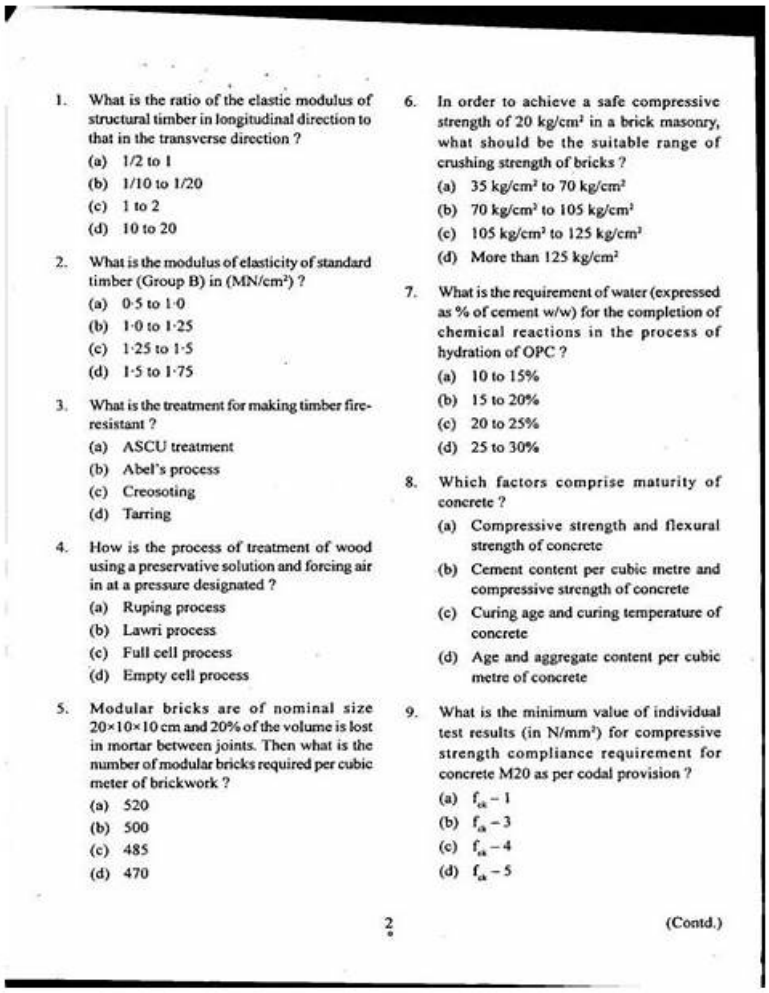
Civil-Engineering-Technology Exam Forum & Civil-Engineering-Technology Actual Exam Dumps



1. What is the ratio of the elastic modulus of structural timber in longitudinal direction to that in the transverse direction ?
   (a) 1/2 to 1
   (b) 1/10 to 1/20
   (c) 1 to 2
   (d) 10 to 20
2. What is the modulus of elasticity of standard timber (Group B) in (MN/cm²) ?
   (a) 0·5 to 1·0
   (b) 1·0 to 1·25
   (c) 1·25 to 1·5
   (d) 1·5 to 1·75
3. What is the treatment for making timber fire-resistant ?
   (a) ASCU treatment
   (b) Abel's process
   (c) Creosoting
   (d) Tarring
4. How is the process of treatment of wood using a preservative solution and forcing air in at a pressure designated ?
   (a) Ruping process
   (b) Lawri process
   (c) Full cell process
   (d) Empty cell process
5. Modular bricks are of nominal size 20×10×10 cm and 20% of the volume is lost in mortar between joints. Then what is the number of modular bricks required per cubic meter of brickwork ?
   (a) 520
   (b) 500
   (c) 485
   (d) 470
6. In order to achieve a safe compressive strength of 20 kg/cm² in a brick masonry, what should be the suitable range of crushing strength of bricks ?
   (a) 35 kg/cm² to 70 kg/cm²
   (b) 70 kg/cm² to 105 kg/cm²
   (c) 105 kg/cm² to 125 kg/cm²
   (d) More than 125 kg/cm²
7. What is the requirement of water (expressed as % of cement w/w) for the completion of chemical reactions in the process of hydration of OPC ?
   (a) 10 to 15%
   (b) 15 to 20%
   (c) 20 to 25%
   (d) 25 to 30%
8. Which factors comprise maturity of concrete ?
   (a) Compressive strength and flexural strength of concrete
   (b) Cement content per cubic metre and compressive strength of concrete
   (c) Curing age and curing temperature of concrete
   (d) Age and aggregate content per cubic metre of concrete
9. What is the minimum value of individual test results (in N/mm²) for compressive strength compliance requirement for concrete M20 as per codal provision ?
   (a) $f_{ck} - 1$
   (b) $f_{ck} - 3$
   (c) $f_{ck} - 4$
   (d) $f_{ck} - 5$

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(Contd.)

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CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q32-Q37):

NEW QUESTION # 32
According to Occupational Health and Safety legislation, who is responsible for safety in the workplace?

- A. Employees and supervisors
- B. Employees and employers
- C. Employees
- D. Supervisors and employers

Answer: B

Explanation:
Workplace safety is ashared responsibilityframework: employers must establish systems, provide training, supervision, and hazard controls, while employees must follow procedures, use PPE, and work safely. Safety manuals used on construction projects reflect this shared-duty approach by requiring employer-provided programs and controls and worker compliance and participation. For example, project safety planning requires hazard identification, training, PPE compliance, and exposure monitoring processes-elements that depend on both management implementation and worker adherence. In multi-employer construction environments, prime contractors coordinate compliance, but this does not eliminate the duties of employers and workers; rather, responsibilities are distributed across roles. Therefore, among the options, the most accurate statement aligned with typical OHS legislative principles is thatemployees and employersare responsible for safety in the workplace.

NEW QUESTION # 33
The road cross sections shown have chainage (CH) 1+100 and 1+200. What is the volume of sub-grade material if an averaging method is applied?

- A. 850 m^3
- B. 425 m^3
- C. 131 m^3
- D. 213 m^3

Answer: D

Explanation:
The averaging method for earthworks between two stations is theAverage End Areamethod:
whereandare the end areas at the two cross sections andis the station spacing. Here, CH 1+100 to 1+200 givesm. From the cross-section labels in the figure, the two sub-grade areas sum to4.26 m^2(e.g., approximately 1.31 m^2 and 2.95 m^2), so the average area ism^2. Multiply by length:m^3. This is the standard approach used for roadway cut/fill and subgrade volume computations between surveyed sections.

NEW QUESTION # 34
In which step in this diagram will a general contractor need to consider their bonding capacity?

- A. Management review
- B. Complete bid report
- C. Notify subcontractors
- D. Decision to bid

Answer: D

Explanation:
Bonding capacity is a contractor's available surety credit-how much bonded work they can carry at once and still qualify for required bid/performance/payment bonds. This must be evaluatedbeforecommitting to pursue the tender, because the ability to provide bonding is often amandatory bid requirementand affects whether the contractor can submit a compliant bid and subsequently execute

the contract. If bonding is not available (or limits would be exceeded), time spent on pricing, subcontractor solicitation, and bid compilation may be wasted and could expose the firm to reputational and procurement risk. Construction project delivery and contracting processes emphasize early go/no-go decisions based on constraints (capacity, risk, resources, financial/security requirements) before major estimating effort is expended. Therefore, bonding capacity should be considered at the earliest gate where the firm commits to compete-the decision to bid-so the contractor confirms eligibility and capability before mobilizing the full bid preparation process.

NEW QUESTION # 35
A civil engineering technologist needs to recommend a foundation design for a commercial building. The borehole logs identify unsuitable bearing soils beneath the proposed floor elevation to a depth of 4 m and shallow bedrock at 5 m. Which of the following types of design should the technologist recommend?

- A. End-bearing piles
- B. Strip footing
- C. Friction piles
- D. Slab on grade

Answer: A

Explanation:
The subsurface profile indicates a weak/unsuitable bearing stratum extending several metres below the proposed founding level, withcompetent bedrock close beneath(shallow bedrock at about 5 m). Shallow foundations (slab-on-grade or strip footings) depend on adequate near-surface bearing capacity and acceptable settlement; with unsuitable soils to 4 m, shallow options would risk excessive settlement or bearing failure unless major ground improvement is performed. Where a strong bearing stratum such as bedrock is available at practical depth,end-bearing pilesare commonly selected to transfer structural loads through weak soils and seat on (or be socketed into) the competent stratum. Engineering references define end-bearing piles as piles driven/drilled to a firm layer/bedrock so that axial load is carried primarily inend bearingrather than relying on skin friction in weak compressible soils. With shallow bedrock, end-bearing piles provide a direct and reliable load path and reduce settlement uncertainty versus friction piles in poor soils.

NEW QUESTION # 36
Which of the following items appears on a record drawing?

- A. Changes from the original construction documents
- B. Safety meeting minutes
- C. Initial project estimates
- D. Quantities for tender

Answer: A

Explanation:
Record drawings (often associated with "as-built" documentation) are the finalized drawing set that reflects theconstructed conditionof the project. Their core purpose is to capture and preservefield changesand deviations from the original issued construction documents so that the owner and future stakeholders have an accurate technical record for operations, maintenance, and future modifications. During construction, changes can occur due to site conflicts, approved substitutions, design clarifications, and coordination between trades.
Those modifications must be consolidated so the final drawings match what was actually installed. In contrast, initial estimates and tender quantities belong to procurement and cost management documentation, while safety meeting minutes belong to safety administration records. A record drawing therefore focuses on revisions to the original design-locations, sizes, elevations, and details that differ from the original plan set-so that the final documents represent the "as-constructed" asset. This is why "changes from the original construction documents" is the defining item that appears on record drawings.

NEW QUESTION # 37
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