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CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q17-Q22):

NEW QUESTION # 17

What is a typical concrete slump for a municipal sidewalk?

- A. 80-100 mm

- B. 50-100 mm
- C. 25-75 mm
- D. 10-50 mm

Answer: B

Explanation:

Municipal sidewalks are commonly placed using a workable, moderately stiff concrete that can be finished and edged without excessive segregation or bleeding. Typical sidewalk mixes target a slump that provides enough workability for placement and finishing while remaining stable in thin slab applications. Civil engineering materials references describe slump as the standard field measure of fresh concrete consistency and note common target slumps for typical flatwork are often in the mid-range rather than very low (hard to place) or very high (risk of segregation unless admixtures are used). In many municipal specifications and standard practice for sidewalk flatwork, a slump range around 50-100 mm is commonly used, balancing finishability and quality. Therefore, among the choices, 50-100 mm best matches a typical municipal sidewalk slump range.

NEW QUESTION # 18

What is the most important information a civil engineering technologist should be familiar with before stepping onsite during site inspection?

- A. Number of site personnel and equipment
- B. Project completion date
- C. Owner's name
- D. Site safety rules and procedures

Answer: D

Explanation:

Before entering any active work site, the highest priority is controlling exposure to hazards. Construction safety standards require that personnel (including inspectors) understand and comply with the site's safety rules, hazard controls, and procedures (e.g., access control, PPE requirements, traffic control, emergency response, and restricted areas). The USACE Safety and Health Requirements Manual (EM 385-1-1) emphasizes pre-task planning, hazard identification, and compliance with site safety requirements, and it explicitly addresses required PPE and safety practices for personnel working in construction environments (including survey/inspection activities). Knowing the owner's name or the completion date is not a prerequisite to safe entry, and knowing headcounts/equipment lists is less critical than understanding the site's safety procedures that prevent injury. Since inspectors must enter and move through hazard zones, the most important information to know beforehand is the site safety rules and procedures to ensure

NEW QUESTION # 19

Which of the following should be performed to determine the cumulative effect of a land development project on land, air, and water?

- A. Aerial surveys
- B. Urban services design
- C. Preliminary surveys
- D. Environmental assessment

Answer: D

Explanation:

"Cumulative effects" refers to the combined impacts of a project together with other past, present, and reasonably foreseeable actions on environmental components (land, air, water, ecosystems, and community receptors). Determining cumulative effects is a core function of environmental assessment (EA/EIA), where project impacts are evaluated not in isolation but in combination with other stressors and developments.

Regulatory EA guidance and practice routinely include a cumulative effects assessment chapter/section in the environmental statement, explicitly addressing how multiple activities interact across time and space.

Preliminary surveys and aerial surveys are data-collection tools that may support EA, and urban services design is an engineering design activity, but neither is the formal process for assessing cumulative land/air/water impacts. Therefore, the correct selection is Environmental assessment.

NEW QUESTION # 20

A soil sample has a porosity of 40%, and the specific gravity of solids is 2.60. What would be the approximate value of dry density of the soil if the soil is completely saturated?

- A. 15.30 kN/m³
- B. 40.25 kN/m³
- C. 20.45 kN/m³
- D. 25.85 kN/m³

Answer: A

Explanation:

For soils, porosity and void ratio are related by. With,
Dry unit weight (often called dry density in kN/m³ terms) is:
where s is specific gravity of solids and e is void ratio. Substituting:

Note that "completely saturated" affects the bulk/saturated unit weight, but the dry unit weight depends only on the solids content (via) and void structure (via), not on how much water occupies the voids. These phase-relationship calculations are standard in soil mechanics.

NEW QUESTION # 21

Which of the following images shows the appropriate tool to measure the slump of concrete?

- A. Option B
- B. Option C
- C. Option D
- D. Option A

Answer: B

Explanation:

Concrete slump is measured using the slump cone (Abrams cone) apparatus and tamping rod in accordance with standard procedures (e.g., ASTM C143). The test measures the vertical "settlement" of fresh concrete after a cone-shaped mold is filled in layers, consolidated (rodded), struck off, and then lifted vertically so the concrete subsides; the drop in height is the slump. The Essentials of Civil Engineering Materials text describes the slump test as forming a specimen inside a metal cone, removing the cone, and measuring how much the top settles ("slumps"), and it outlines the typical steps: wet the cone, fill in layers, tamp with a rod, strike off, and measure the slump. The correct tool set therefore is the image that shows the slump cone with base and tamping rod, which corresponds to Option C.

NEW QUESTION # 22

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