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CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q49-Q54):

NEW QUESTION # 49

A cologist is required to inspect the installation of a sanitary service pipe to confirm the slope. The technologist measures an elevation of 705.667 at the end of the service and 705.202 at the main. The horizontal measurement from the main to the end of the service is 22.10 m. What is the slope of the pipe?

- A. 1.5%
- B. 2.0%
- C. 2.1%
- D. 2.5%

Answer: C

Explanation:

Pipe slope is computed as rise (or fall) divided by run, expressed as a percent:

This matches standard civil engineering definitions of grade/slope as elevation change over horizontal distance.

Here, the elevation drop from the service end to the main $5.202 = 0.465$ m.

Horizontal distance (run) = 22.10 m

Slope = $0.465 / 22.10 = 0.02104 = 2.104\%$, which rounds to 2.1%.

This calculation reflects standard practice used in roadway and pipeline work for checking grades, confirming that installed utilities meet design slopes for gravity flow. The answer choice that matches the computed slope is 2.1% (Option C).

NEW QUESTION # 50

What should a contract administrator do when the contractor is falling behind schedule?

- A. Write a contemplated change order to hurry the contractor up.
- B. Find a new contractor who can meet the original completion date.
- C. **Keep accurate daily records of activities, progress, and site conditions, and hold regular meetings with the contractor.**
- D. Maintain daily records in preparation for seeking liquidated damages from the contractor.

Answer: C

Explanation:

When schedule performance deteriorates, the contract administrator's most effective and defensible actions are (1) to maintain accurate contemporaneous records of progress, site conditions, and events affecting productivity, and (2) to actively manage communication through regular progress meetings focused on recovery plans, constraints, and corrective actions. Good practice in civil engineering project administration emphasizes rigorous follow-up and maintaining accurate, up-to-date information for project control and claims management. Simply preparing for liquidated damages without engaging in management (C) is reactive, and replacing the contractor (A) is generally not an immediate contractual option. Issuing a change order to "hurry up" (B) is not a standard mechanism and may create cost/time disputes. Option D combines the two core controls—documentation and structured coordination—needed to evaluate entitlement, support mitigation, and keep stakeholders aligned while protecting the owner's position under the contract.

NEW QUESTION # 51

What is the bearing capacity of soil?

- A. Maximum concentrated load that soil can take under pressure
- B. Highest concentrated load applied to soil for maximum compaction
- C. Highest pressure of force that foundation soil can withstand before crumbling
- D. **Maximum pressure that soil can withstand without undergoing shear failure**

Answer: D

Explanation:

In foundation engineering, "bearing capacity" refers to the maximum bearing pressure that soil can support under a foundation without a shear failure mechanism developing in the ground, and (in allowable/safe terms) without causing excessive settlement. In practice, design is based on allowable bearing capacity / allowable bearing pressure, which is the net pressure (beyond overburden) that will not cause shear failure or excessive settlements, after applying an appropriate factor of safety. This concept is tied to classic bearing capacity theories (e.g., Terzaghi) that predict shear failure along defined surfaces beneath a footing. Therefore, the best definition among the options is the one referencing maximum pressure without shear failure, not a "concentrated load," "compaction," or "crumbling."

NEW QUESTION # 52

A civil engineering technologist has been tasked with collecting topographical data on a work site. After arriving at the site, and before conducting any field work, what must the technologist do?

- A. **Complete a hazard assessment.**
- B. Search for applicable survey plans.
- C. Set up the base unit.
- D. Complete a walk-around inspection of the vehicle.

Answer: A

Explanation:

Before any field activity begins, the technologist must ensure the work can be performed safely by completing a hazard assessment (often called a job hazard analysis / activity hazard analysis). Construction safety standards require identifying hazards (traffic, equipment interaction, uneven ground, overhead utilities, excavations, wildlife, weather, restricted zones), selecting controls (PPE, traffic control, spotters, exclusion zones), and confirming site rules and emergency procedures. EM 385-1-1 emphasizes hazard identification and pre-task planning as prerequisites to safe execution of site activities, including inspection and survey work. Setting up equipment or searching for plans does not address immediate on-site hazards, and a vehicle walk-around may be good practice but does not replace the required task/site hazard assessment. Therefore, the correct "must do" action before field work is to complete a hazard assessment.

NEW QUESTION # 53

Which of the following records should be referenced during the preparation of a monthly progress payment certificate for a contractor?

- A. Inspector's daily progress record
- B. Contractor's packing slips
- C. Contractor's weekly safety meeting record
- D. Inspector's daily diary

Answer: A

Explanation:

Monthly progress payment certification is fundamentally based on verified quantities and percent complete for contract items installed in the field. Professional guidance on interim valuations emphasizes that periodic payments are established from site measurement/valuation of work completed, then certified by the contract administrator (or equivalent). That process requires a reliable field record of installed work—typically maintained daily by inspection staff—showing item-by-item progress, quantities, locations, and dates. Among the options, an inspector's daily progress record is the document specifically intended to track completed work in a form that supports valuation, whereas a diary is less structured, packing slips only show deliveries (not acceptance/installation), and safety meeting records relate to OH&S rather than payment entitlement. Therefore, the best supporting record for producing a progress payment certificate is the inspector's daily progress record, because it ties payment to measured/verified construction progress as required for interim certification practices.

NEW QUESTION # 54

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