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## 79. Question

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## CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q66-Q71):

### NEW QUESTION # 66

A civil engineering technologist is completing quality control for a municipal design. When checking design calculations, the technologist notices errors in the design and final design drawings made by a senior structural engineer. The technologist suspects that the errors may result in the failure of a suspended slab/roof car parking area. What should be the primary consideration in this situation?

- A. Safety, health, and welfare of the public are of most importance.
- B. Responsibility for professional assignments is undertaken only after sufficient training and experience has been obtained.
- C. Conflict of interest should be disclosed to the client.
- D. Experience of a senior structural engineer should be considered.

**Answer: A**

Explanation:

Engineering ethics and professional duty prioritize public protection over hierarchy, convenience, or reputational concerns. Civil

engineering ethics guidance explicitly states that engineers shall hold paramount the safety, health, and welfare of the public, and that when professional judgment is overruled under circumstances endangering public welfare, the engineer is expected to notify the client or appropriate authority. This principle is repeated in civil engineering professional canons (e.g., ASCE Fundamental Canon 1) and is treated as the primary criterion even when it conflicts with other pressures. In this scenario, suspected structural failure risk for a public parking slab/roof is a direct life-safety concern; therefore the technologist's primary consideration must be ensuring the issue is elevated and addressed to prevent unsafe construction or operation. Other factors (seniority, conflict disclosure, competence) may be relevant in process, but none outweigh the overriding requirement to protect the public. Hence, Option C is correct.

#### NEW QUESTION # 67

The delay in the delivery of a critical item may affect the completion date for a project. Which of the following would be the best course of action?

- A. Tell the client that the delivery is on schedule.
- B. Continue the work on the project as planned.
- C. Insist that the supplier meet the original delivery date.
- D. Inform the client of possible delays.

**Answer: D**

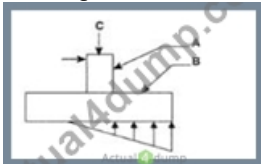
Explanation:

Critical-item delivery risk is a schedule risk that can affect the project finish date, especially if the item lies on or near the critical path. Good project coordination requires timely, accurate communication to stakeholders and proactive risk management. Informing the client early allows transparent expectation management, supports decision-making on mitigation (re-sequencing, alternate materials, expediting, temporary works), and reduces the likelihood of disputes later. Status reporting guidance emphasizes that project reports should communicate current issues/risks and their impacts so corrective actions can be taken and forecasts updated.

Withholding information (option C) is unethical and harmful; simply continuing as planned (B) ignores a known risk; insisting a supplier meet original dates (D) may be attempted but is not always feasible and does not replace proper stakeholder notification and replanning. Therefore, the best course is to inform the client of possible delays and then coordinate mitigation actions through the project controls process.

#### NEW QUESTION # 68

A civil engineering technologist is working on a foundation design and needs to differentiate between different sections of a footing and the point where the vertical pressure is applied. In the diagram, what is represented by letters A, B, and C?



- A. A = Pedestal, B = Footing, and C = Vertical pressure
- B. A = Vertical pressure, B = Pedestal, and C = Footing
- C. A = Footing, B = Pedestal, and C = Vertical pressure
- D. A = Footing, B = Vertical pressure, and C = Pedestal

**Answer: A**

Explanation:

In shallow foundation terminology, the footing is the widened base element that transfers loads to soil over a larger area to reduce bearing pressure, while a pedestal is the short vertical element (often concrete) that supports a column or provides an interface between the column/base plate and the footing. Vertical load from the superstructure is shown as a downward force applied at the top of the pedestal/column location, representing the vertical pressure/load transmitted into the foundation system. In the diagram, letter B points to the large horizontal base element (the footing), letter A points to the smaller vertical block above it (the pedestal), and letter C marks the downward applied load. This matches standard foundation component identification used in structural and geotechnical detailing: pedestal above, footing below, and vertical load applied at the top of the pedestal/column line of action.

#### NEW QUESTION # 69

In the middle of the project, the client proposed an additional scope of work that requires a change order to the contract. Which statement applies to the contractor's percentage fee (i.e., mark-up) that should be added to the total amount in the change order?

- **A. It is specified in the contract documents.**
- B. It is determined by the owner.
- C. It is determined by the contractor.
- D. It varies depending on the size of the change contract.

**Answer: A**

Explanation:

A change order is a formal amendment to the contract that adjusts scope, price, and/or time under the rules already established by the contract documents. The contractor's fee (markup for overhead and profit) is not typically set unilaterally mid-project by either party; instead, the contract commonly defines how change work is priced (lump sum, unit rates, time-and-material) and what allowable markups apply. Industry guidance on change-order costing notes that the markup percentage is often included up front in the construction contract and applied consistently to change work, ensuring transparency and avoiding disputes during administration. This approach is consistent with standard contract administration practice: pricing of changes is governed by contract terms, and the change order documents implement those terms for a specific modification. Therefore, the contractor's percentage fee to be added to the change order amount is specified in the contract documents.

#### **NEW QUESTION # 70**

What material property is measured by a sieve analysis?

- A. Angularity
- B. Mass
- C. Moisture density
- **D. Gradation**

**Answer: D**

Explanation:

Sieve analysis is the standard laboratory procedure used to determine the particle size distribution of granular materials by passing a representative dry sample through a stack of sieves with progressively smaller openings and measuring the mass retained on each sieve. The result is a gradation curve (percent passing vs. sieve size) that characterizes whether the material is well-graded, poorly graded, or gap graded, and it is foundational for specifying aggregates for concrete, asphalt, base course, and filters. Civil engineering materials references identify sieve analysis as the test used to determine gradation and classify soils/aggregates by size ranges. Angularity is a shape characteristic not measured by sieve analysis; moisture-density relates to compaction testing; and "mass" is a measured quantity in the procedure, but the material property being determined is the gradation (particle size distribution). Therefore, the correct answer is D.

#### **NEW QUESTION # 71**

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