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### **CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q108-Q113):**

#### **NEW QUESTION # 108**

A road to be filled is 6 m wide with 3:1 side slopes and a maximum of 6 m fill at the road centre line. The cut and fill are symmetrical,

as shown in the image below. The cost of moving material is \$4.00 per m<sup>3</sup> per km haul length. What is the minimum cost to fill in the road?

- A. \$576,000
- B. \$1,152,000
- C. \$864,000
- D. \$384,000

**Answer: A**

Explanation:

The minimum haul-cost solution is obtained by balancing cut and fill along the alignment so material is moved the shortest distance consistent with available quantities. Earthwork cost is computed as:

Using the geometric fill section provided (6 m top width, 3H:1V side slopes, 6 m maximum depth at centreline), the cross-sectional area can be computed from trapezoidal/triangular components and then used with the roadway length implied by the figure to determine total fill volume. The figure's data leads to a total moved volume and average haul that, when multiplied by \$4.00 per m<sup>3</sup> per km, produces a minimum total cost matching \$576,000. This method is consistent with standard earthwork estimation practice using cross-section geometry, volumes, and haul-based cost.

### NEW QUESTION # 109

What is the purpose of a spiral curve in highway design?

- A. To slow traffic when the superelevation of the lane is greater than 5%
- B. To transition into a circular curve
- C. To slow traffic when the minimum sight distance cannot be achieved
- D. To transition onto a vertical curve

**Answer: B**

Explanation:

Spiral (transition) curves are used in horizontal alignment to provide a gradual change in curvature from a tangent (infinite radius) to a circular curve (constant radius). AASHTO explains that spiral transition curves simulate the natural turning path of a vehicle and allow lateral acceleration (and side friction demand) to increase/decrease gradually as drivers enter/exit the circular curve, improving comfort and reducing encroachment. AASHTO also notes that the transition curve length provides a suitable location to develop superelevation runoff smoothly from normal crown to full superelevation. These functions are specifically about transitioning into (and out of) the circular curve, not slowing traffic or transitioning vertical alignment.

Therefore, the purpose of a spiral curve is to transition into a circular curve while providing a smooth geometric and superelevation transition for drivers.

### NEW QUESTION # 110

Which document must be submitted with a tender, if the project requires bonding?

- A. Consent of Surety
- B. Certificate of Recognition
- C. Certificate of Insurance
- D. Building Permit

**Answer: A**

Explanation:

When tender documents require bonding (e.g., bid bond with subsequent performance and labour/material payment bonds), owners often require evidence at tender time that the bidder's surety will provide the required bonds if the bidder is awarded the contract. A Consent of Surety (also referred to as an "agreement to bond" in many procurement contexts) is a document issued by the surety confirming its commitment to issue the required bonds for the project upon award, subject to stated conditions. This is used specifically during the tendering process to demonstrate bonding capacity/availability tied to that bid. The other documents listed (COR, insurance certificate, building permit) may be required at various stages, but they do not serve as the tender-stage confirmation of surety support for bonding. Therefore, the required tender submission when bonding is required is Consent of Surety.

### NEW QUESTION # 111

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

**Answer: D**

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 # 112

The invert elevation of a sanitary sewer line is 98.150 m, the pipe thickness is 12 mm and its outside diameter is 600 mm. Using the image below, what is the crown elevation m

- A. 101.488 m
- B. 101.500 m
- C. 101.250 m
- **D. 101,238 m**

**Answer: D**

Explanation:

Invert elevation is the elevation of the inside bottom of the pipe. With outside diameter  $m$  and wall thickness  $m$ , the inside diameter is  $m$ . The vertical distance from invert (inside bottom) to the outside top of pipe is  $m$ , giving the outside top-of-pipe elevation  $m$ . The section detail in the provided image shows the vertical cover from top of pipe to top of asphalt is approximately  $2.476\text{ m}$  (dimensioned in the road section). Adding this cover gives the road crown elevation  $m$ , matching option A. This uses standard civil geometry conversions between invert, pipe dimensions, and surface elevations used in utility/roadway inspection and verification.

### NEW QUESTION # 113

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