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Civil-Engineering-Technology Latest Questions | Exam Civil-Engineering-Technology Reference

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CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q76-Q81):

NEW QUESTION # 76

What type of concrete structural element is shown in the image below?

- **A. Post-tensioned**
- B. Prestressed
- C. Cast in place
- D. Precast

Answer: A

NEW QUESTION # 77

A continuous bridge spans over multiple piers. If one of the piers collapses standing because the adjacent piers will pick up the load. What type of redundancy does the bridge have?

- A. Structural
- **B. Load path**
- C. Internal
- D. Multi-span

Answer: B

Explanation:

The scenario describes the bridge continuing to stand after a support failure because loads can be redistributed through alternate routes to the remaining supports. That is the essence of alternate load paths, i.e., load path redundancy. Petroski explains bridge failures where collapse occurred because there was no alternate load path capable of supporting rerouted loads after a component became loose, highlighting that survival depends on alternate load paths. He also notes designers try to build alternate load paths so stresses can reroute when one load path becomes unavailable. Labi similarly describes redundancy as having another member/component "there to play its role" in the event of failure, enable when a component is out of service.

Because the bridge remains standing due to load redistribution to adjacent supports, the redundancy type is best identified as load path redundancy.

NEW QUESTION # 78

An engineered wooden "I" floor joist has a hole that was cut at the bearing location. What is the best way to verify that the structural integrity of the joist has not been compromised?

- A. Consult another technologist for engineering calculations.
- B. Contact a supplier for detailed design information.
- C. Ask a mechanical contractor to remove the obstacle.
- **D. Contact the manufacturer for further information.**

Answer: D

Explanation:

Engineered I-joists are proprietary structural products with capacity and allowable hole/notch limits governed by the manufacturer's engineering and published specifier guides/repair details. A hole at or near a bearing is particularly critical because shear demands and web stresses are highest near supports, and manufacturers explicitly restrict hole proximity to bearings and provide specific repair details when holes occur in sensitive zones. For example, Weyerhaeuser's TJI repair technical bulletin states conditions for repair applicability and includes "DO NOT" limitations related to holes overlapping the inside face of bearing and other proximity restrictions, indicating that manufacturer guidance controls whether a joist is acceptable and how it must be repaired. Industry good-practice guidance similarly emphasizes that manufacturer instructions must be followed and holes should not be over supports/bearings without approval and prescribed reinforcement.

Therefore, the best way to verify integrity is to contact the manufacturer (or their engineering support) and follow their published repair/acceptance requirements.

NEW QUESTION # 79

Prior to entering an active construction site, what must all visitors do?

- A. Check in at the site office for permission.
- B. Show identification credentials.
- **C. Put on the appropriate Personal Protective Equipment (PPE).**
- D. Call supervisor notifying of site visit.

Answer: C

Explanation:

Active construction sites present immediate hazards (struck-by, slips/trips, falling objects, dust/noise, and equipment interaction).

Safety standards require that anyone entering hazard areas wear the required PPE for that site (hard hat, safety footwear, high-visibility apparel, eye protection, etc.) as dictated by the site's hazard assessment and rules. EM 385-1-1 requires PPE use appropriate to exposures and includes provisions for visitors/inspectors/survey crews who may be exposed to construction hazards and traffic/equipment. While checking in or notifying supervision may be a site rule, the universally mandatory precondition for entry into active work zones is wearing appropriate PPE, because it is the primary control that reduces immediate injury risk upon entering the site environment. Therefore, the correct choice is A.

NEW QUESTION # 80

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

Answer: C

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 # 81

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