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CTTAM Civil-Engineering-Technology Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Structural Engineering	20%	- Structural Analysis & Design • 1. Concrete & Steel Structures • 2. Timber & Masonry Design
Topic 2: Construction Management & Materials	10%	- Construction Methods & Project Management • 1. Codes, Standards & Ethics • 2. Construction Materials & Quality Control
Topic 3: Geotechnical Engineering	18%	- Soil Mechanics & Foundation Engineering • 1. Earthworks & Retaining Structures • 2. Soil Properties & Testing
Topic 4: Transportation Engineering	15%	- Highway & Road Design • 1. Traffic Engineering & Planning • 2. Pavement Design & Materials
Topic 5: Civil Engineering Fundamentals	25%	- Engineering Mathematics & Applied Science • 1. Statics & Mechanics of Materials • 2. Fluid Mechanics & Hydraulics • 3. Surveying & Geomatics
Topic 6: Water Resources & Environmental Engineering	12%	- Hydrology & Water Systems • 1. Wastewater & Water Treatment • 2. Environmental Regulations & Sustainability

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CTTAM Technical Examination - Civil Engineering Technology C.E.T Sample Questions (Q19-Q24):

NEW QUESTION # 19
A civil engineering technologist works for a contractor. An engineer notifies him that the depth of concrete pilings needs to be increased. What is the first thing the civil engineering technologist should do?

- A. Proceed with the revised work as instructed.
- B. Present revised environmental considerations to the project engineer.
- C. Present the change in costs and schedules to the project manager.
- D. Proceed with the work according to the original contract.

Answer: C

Explanation:
Increasing pile depth is a scope change that affectsquantity of work, time, equipment effort, and cost. In contract-based construction, changes are handled throughformal change mechanisms(variations/change orders) that adjust scope, schedule, resources, and compensation as part of the contract documents. Civil engineering construction references define a change order as a formal document used to modify the contractual agreement and note that change orders may be established for changes in schedule, resource allocation, scope, and compensation. Because the technologist works for the contractor, the immediate project- control step is to ensure the project manager is aware of the impact so that pricing, schedule updates, and contractual change procedures can be initiated before proceeding. Simply proceeding (original or revised) without addressing cost/schedule implications risks uncompensated work and unmanaged schedule impacts.
Therefore, the first action is topresent the change in costs and schedules to the project manager.

NEW QUESTION # 20
A contractor is checking final grade elevation in advance of paving operations. What elevation needs to be confirmed before any asphalt is placed?

- A. Sidewalk
- B. Face of curb
- C. Top of base
- D. Culvert inverts

Answer: C

Explanation:
Before asphalt paving, the immediate supporting layer must be at the correct line and grade because asphalt thickness is builton top of the prepared base. Thetop of baseelevation controls final pavement structure thickness and the finished riding surface elevation when combined with asphalt lift thicknesses. If base grade is too high or low, the asphalt thickness will vary outside tolerance, which can affect performance (rutting, cracking), drainage crossfall, and tie-ins at structures and curbs. Standard field inspection practice therefore verifies base course elevations (and crossfall) immediately before paving so corrections (regrading /recompaction) can be made while accessible. This fits typical roadway QA/QC sequencing: shape and compact subgrade/base to the specified elevations, confirm, then place asphalt lifts to achieve final grade.
Hence, the elevation that must be confirmed prior to placing asphalt istop of base.

NEW QUESTION # 21
Which of the following isnota type of structural foundation system used to hold the weight of a building?

- A. Structural slab-on-grade
- B. Concrete formwork
- C. Grade beam and piles
- D. Wall and strip footings

Answer: B

Explanation:
A "foundation system" is a permanent structural/geotechnical arrangement that transfers building loads to the supporting ground (e.g., shallow foundations like strip/spread footings or slabs-on-grade, and deep foundations like piles with grade beams). Options A, B, and D are all recognized foundation systems: pile
/grade beam systems are deep foundation solutions; wall and strip footings are shallow continuous foundations; and structural slabs-on-grade are shallow systems that distribute loads to prepared subgrade. By contrast,concrete formworkis atemporary construction means-the molds, supports, and bracing used to shape and support fresh concrete until it gains strength. Formwork is not part of the final load path once removed, and it does not function as a load-transfer system into soil/rock. Therefore, among the choices, the item that is not a foundation system isconcrete formwork.

NEW QUESTION # 22
The critical path refers to which of the following series of tasks in a schedule?

- A. eect
- B. Those that dictate the start date of a project
- C. Those that dictate the final cut and fills in a project
- D. Those that dictate the final cost of a project

Answer: A

Explanation:
The critical path is thelongest-duration paththrough a project network schedule and represents the sequence of activities withzero (or minimal) float. Because activities on this path have no schedule slack, any delay to a critical-path activity delays theproject completionunless mitigated (e.g., crashing, fast-tracking, resequencing). Standard project scheduling references define the critical path as the chain of tasks that determines theearliest possible finishdate; controlling and monitoring these tasks is essential for schedule management and forecasting. This is why contract administrators and project teams track critical activities and escalate risks affecting them-delivery delays, access constraints, approvals, and rework-because they directly move the completion milestone. Therefore, the critical path refers to tasks thatdictate the finish date of the project, which is optionA.

NEW QUESTION # 23
A developer is planning to build an office building on a 4-acre parcel of land. Which of the following documents will tell the developer how much fill to bring to the site to make it level?

- A. Topographic survey plan
- B. Real property report
- C. Foundation plan
- D. Architectural plan

Answer: A

Explanation:
Determining how much fill is needed to level a site requires knowing theexisting ground elevationsacross the parcel and comparing them to a proposed target grade plane/surface. Atopographic survey planprovides the required elevation information (spot elevations, contours, breaklines, and surface features) from which earthwork quantities (cut/fill volumes) are computed. Foundation and architectural plans generally show building geometry and design intent, not full-site existing elevations. A real property report focuses on legal boundary information and improvements relative to property lines, not the detailed elevation grid needed for volume calculations. Civil engineering practice uses topographic survey data as the basis for grading design and earthwork estimation, including calculating volumes via grids or cross-sections.

NEW QUESTION # 24
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