



CPII Sample Questions

These sample questions are representative of the items you would see on the Certified Public Infrastructure Inspector Examination. Twenty question(s), maximum score 20

1 of 20.

Which three are standard symbols and classifications used by ASTM to identify soils?

- (a) Gravel (G), Sand (S), Clay (C)
- (b) Sand (S), Silt (M), Rock (R)
- (c) Sand (S), Rock (R), Clay (C)
- (d) Gravel (G), Sand (S), Rock (R)

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Which soil type is classified as cohesive soils with an unconfined compression strength of 1.5 tons per square foot?

- (a) Type B
- (b) Type C
- (c) Type A
- (d) Type D

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Which of the following is true about permit confine spaces?

- (a) Contains or has the potential to contain a hazardous atmosphere
- (b) Does not contain a material that has the potential to engulf an entrant
- (c) Has walls that converge outward
- (d) Has walls that diverge inward

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At what percentage is an atmosphere considered oxygen-deficient?

- (a) >18.5%
- (b) >21%
- (c) <20.2%
- (d) <19.5%



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At what depth does an excavation require a trench safety plan developed by a professional engineer?

- (a) 5 feet
- (b) 10 feet
- (c) 15 feet
- (d) 20 feet

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Which type of joint should be used between two adjacent concrete structures that are not in physical contact?

- (a) Expansion joint
- (b) Isolation joint
- (c) Control joint
- (d) Construction joint

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The waterline geometry requiring the largest thrust block for a given pipe diameter is:

- (a) Dead/ end/ cap
- (b) 22.5-degree bend
- (c) 45-degree bend
- (d) 90-degree bend

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During an HDD operation for a new 24" pipe, the reamed hole should be a minimum of?

- (a) 30"
- (b) 36"
- (c) 38"
- (d) 24"

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A steerable trenchless method of installing underground pipe, conduit, or cable is called

- (a) Vertical turbine drilling



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- (b) Horizontal directional drilling
- (c) Vertical pipe pulling
- (d) Pipe bursting

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Whenever a piece of equipment is locked out /tagged out, keys are

- (a) Given to shift operator.
- (b) Kept by person locking out.
- (c) Given to chief operator.
- (d) Given to security officer.

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How many cubic yards of dirt are removed from a trench 600 feet long, 4 feet wide and 8 feet deep.

- (a) 444 cubic yards
- (b) 533 cubic yards
- (c) 622 cubic yards
- (d) 711 cubic yards

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A weir is an obstruction placed in the flow path causing the water to

- (a) Back up.
- (b) Pressurize.
- (c) Evaporate.
- (d) Stop.

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A “proof roll” is used to determine

- (a) Depth of excavation.
- (b) Subgrade stability.
- (c) Grade of slope.
- (d) Soil type.



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Concrete forms should be checked

- (a) Before pour.
- (b) During pour.
- (c) Immediately after pour.
- (d) 24 hours after pour.

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Determine the slope of a 250' long sanitary sewer pipeline with an upstream structure invert of 619.40 and a downstream invert of 614.60.

- (a) 51.9%
- (b) 40.36%
- (c) 0.192%
- (d) 1.92%

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While reviewing the video of a large new storm sewer installation in a residential neighborhood that is approximately 1/2 mile long, the inspector notices two locations where there is a 2" gap between joints of a 36" reinforced concrete pipe.

What is the BEST course of action?

- (a) Require contractor to remove and replace the entire 1/2-mile section of pipe
- (b) Reject the plan and require the contractor to reinstall
- (c) Ignore the gaps in the pipes and accept the work
- (d) Ask the Project Engineer to determine the remedy

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If a given pipe has an 8-inch (20.3-centimeter) inner diameter and a 12" (30.48-centimeter) outer diameter, the surface area used to calculate pressure on an endcap is

- (a) 50.24 pounds per square inch (346.39 kilonewtons per square meter).
- (b) 113.04 pounds per square inch (779.38 kilonewtons per square meter).
- (c) 50.24 square inches (324.13 square centimeters).
- (d) 113.04 square inches (729.25 square centimeters).



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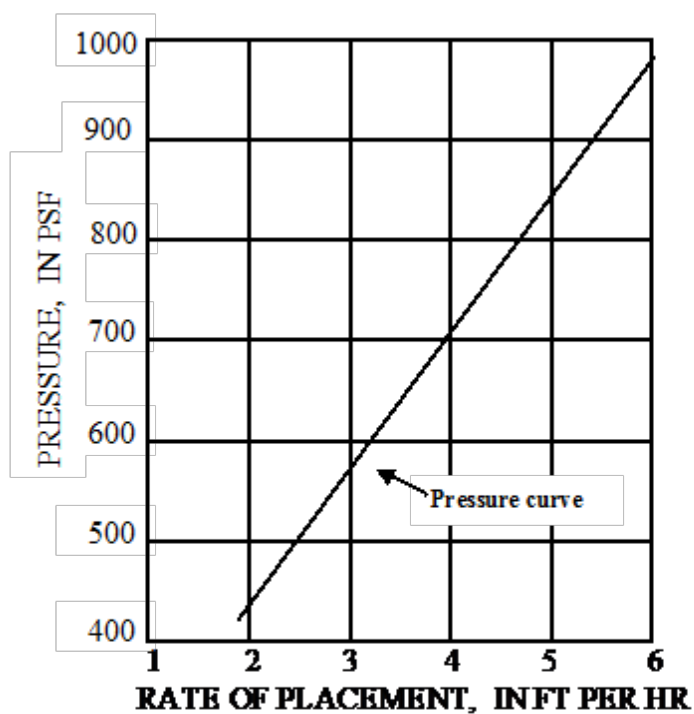
- (a) high water table.
- (b) engineered fill.
- (c) buried debris.
- (d) inclined slippage planes.

19 of 20. The minimum standards for pavement markings, traffic control signing, and temporary traffic control in work zones is published the Federal Highway Administration in the

- (a) AASHTO specifications and procedures.
- (b) ASTM Guidelines.
- (c) MUTCD.
- (d) APWA specifications.

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Concrete: 150 lbs/cu. ft

Temperature: 60-70°F

Slump: 5 inches

VARIATION IN PRESSURE WITH RATE OF PLACEMENT
Public Works Inspectors' Manual, 6th Ed., Birch, Nicholson, & Price.

The material identified in the chart is to be placed at a rate of three feet per hour.

The minimum bearing pressure of the formwork must be

- (a) 500 psf.
- (b) 600 psf.
- (c) 700 psf.
- (d) 800 psf.



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CPII Sample Question Answer Key

1. A
2. C
3. A
4. D
5. D
6. B
7. A
8. B
9. B
10. B
11. D
12. A
13. B
14. A
15. D
16. A
17. C
18. B
19. C
20. B