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)

2 of 20.
**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

3 of 20.
**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

4 of 20.
**At what percentage is an atmosphere considered oxygen-deficient?**

(a) >18.5%
(b) >21%
(c) <20.2%
(d) <19.5%
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5 of 20. 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

6 of 20. 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

7 of 20. 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

8 of 20. 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”

9 of 20. 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

10 of 20.
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.

11 of 20.
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

12 of 20.
A weir is an obstruction placed in the flow path causing the water to
(a) Back up.
(b) Pressurize.
(c) Evaporate.
(d) Stop.

13 of 20.
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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14 of 20.
Concrete forms should be checked
(a) Before pour.
(b) During pour.
(c) Immediately after pour.
(d) 24 hours after pour.

15 of 20.
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%

16 of 20.
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

17 of 20.
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).
18 of 20. During clearing and grubbing operations, the inspector should be alert to existing conditions in the soil which would negatively impact or prohibit the construction of any improvement upon the soil. One example of an existing condition that does NOT negatively impact construction is:

(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.
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