Civil Engineering Basics

Civil Engineering · Practice Test · 18 Questions

1. Which material is most commonly used in the construction of modern bridges and buildings for its high compressive strength?

A) Concrete
B) Rubber
C) Plastic
D) Cloth

2. What is the primary function of a foundation in a building?

A) To add decoration
B) To distribute the building's weight to the ground
C) To store electricity
D) To hold the plumbing pipes

3. Which force refers to the 'pulling' or stretching of a structural member?

A) Compression
B) Torsion
C) Tension
D) Shear

4. What type of bridge uses cables attached to towers to support the deck?

A) Suspension bridge
B) Arch bridge
C) Beam bridge
D) Pontoon bridge

5. In civil engineering, what is 'dead load' referring to?

A) The weight of the people inside
B) The weight of the structure itself
C) The weight of the wind against the building
D) The weight of the furniture

6. Which shape is most commonly used in trusses because it is structurally rigid and does not easily deform?

A) Rectangle
B) Circle
C) Triangle
D) Pentagon

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7. What structure is built across a river to control water flow and generate electricity?

A) Aqueduct
B) Dam
C) Pier
D) Canal

8. Which of these is a major component of reinforced concrete?

A) Steel bars
B) Gold wire
C) Copper sheets
D) Lead pipes

9. What is the main purpose of a retaining wall?

A) To act as a roof
B) To hold back soil or earth
C) To decorate a garden
D) To catch rainwater

10. What is the term for a civil engineer who focuses on the design and maintenance of road and highway systems?

A) Structural engineer
B) Transportation engineer
C) Environmental engineer
D) Geotechnical engineer

11. Which force tries to crush or squeeze a material?

A) Tension
B) Compression
C) Shear
D) Bending

12. What does a geotechnical engineer primarily study?

A) Computer software
B) Soil and rock properties
C) Weather patterns
D) Traffic lights

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13. What is the primary material used in the construction of a traditional railway track?

A) Steel
B) Glass
C) Paper
D) Polyester

14. Which of these is used to measure the height or vertical distance between points on a construction site?

A) Protractor
B) Leveling instrument
C) Compass
D) Thermometer

15. A tunnel bored through a mountain is primarily designed to facilitate what?

A) Water drainage
B) Transportation
C) Building cooling
D) Air filtration

16. What is the purpose of an aqueduct?

A) To generate heat
B) To transport water
C) To provide internet access
D) To block wind

17. Which structural element is horizontal and supports a load applied perpendicular to its length?

A) Column
B) Beam
C) Foundation
D) Pile

18. What is the name of the document that outlines the step-by-step instructions for a construction project?

A) Blueprint
B) Diary
C) Novel
D) Menu

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