

Pre-test Chapter 1

1. What is the construction?

- a) the action of building something, typically a large structure.
- b) The action of dancing.
- c) To build.
- d) A and C are correct.

2. what is the maintenance of roads

- a) Large scale construction made of stones, bricks and resistant materials
- b) It maintains inadequate conditions of operation, the infrastructure destined to the water management of the road
- c) It's a roadway for cars and land freight vehicles
- d) The option a and b are correct

3. Fundamental characteristics of quality assurance in civil work are:

- a) laws, administration, quality model
- b) management, control, assurance
- c) organization, implementation, control
- d) management, responsibility, service

4. Which of these images refers to dynamite?



5. Should devices, materials, procedures be included in the prices of contractual items?

a) true

b) false

6. What does an engineer do?

- a) The engineer is not trained for a specific task.
- b) The engineer builds.
- c) The engineer buys the bricks.
- d) The engineer builds the dynamite

7. Do the highways have to have sewers to evacuate rainwater?

a) True

b) False

8. Which is an aggregate?

- a) It is the mixture of cement, inert aggregates (sand, gravel and water)
- b) all options are correct
- c) It coarse-grained particulate material
- d) Material constituted by small grains of mineral detached from the rocks and accumulated on beaches

9. What color is the hull used by the engineers?

- a) Blue
- b) Black
- c) Grey
- d) White

10. Which software uses the engineers?

- a) Photoshop
- b) Autocad
- c) paint
- d) Illustrator

11. What is concurrent force system?

- a) All forces act at the same point
- b) All forces have the same line of action

- c) All forces are parallel with one another
- d) All forces are all in the same place

12. It is the intensity of the force.

- a) Vector quantities
- b) Magnitude
- c) Direction
- d) Scalar quantities

13. What is of fluids at rest?

- a) Electro pneumatics
- b) Hydraulics
- c) Pneumatics
- d) Hydrostatics

14. Quantities which posses magnitude.

- a) Vector quantities
- b) Magnitude
- c) Direction
- d) Scalar quantities

15. What is the ratio of stress to strain in a material loaded within its elastic range?

- a) Ultimate strength
- b) Allowable strength
- c) Modulus of elasticity
- d) Yield strength

16. What refers to the learning that is provided in order to improve performance on the present job?

- a) Training
- b) Development
- c) Vestibule
- d) Specialized cources

17. Sublimation is direct change from

- a) Liquid to gas phase
- b) Solid to gaseous phase
- c) Gas to liquid phase
- d) Liquid to solid phase

18. What remains constant during a steady-flow process?

- a) Mass
- b) Energy content of the control volume
- c) Temperature

d) Mass and energy content of the control volume

19. What is the unit of work?

- a) Newton meter per second
- b) Newton meter
- c) Newton meter squared
- d) One Newton meter or one Joule

20. What refers to an actual force that arises to oppose relative motion between contacting forces?

- a) Action force
- b) Reaction force
- c) Friction
- d) Drag

21. What type of steel has a carbon as its principal hardening agent?

- a) Iron steel
- b) Carbon steel
- c) Alloy
- d) Iron carbon

22. Is assumed to be the sum of the linear momentum of its particles?

- a) Linear momentum of a body
- b) Dynamic momentum of a body
- c) Static momentum of a body
- d) Momentum of a body

23. When several forces act in a given situation.

- a) Collinear of forces
- b) System of forces
- c) Line of forces
- d) Linear forces

24. What is the force of attraction of the on a body.

- a) Weight
- b) Density
- c) Mass
- d) Number

25. Some members in the truss which cannot carry load

- a) Two force member
- b) One force member
- c) Force member
- d) Zero force member

