

تعداد سؤالات: تستی: ۳۰ تشریحی: —

زمان آزمون: تستی: ۵۰ تشریحی: — دقیقه

آزمون نمره منفی دارد ○ ندارد ⊗

نام درس: زبان تخصصی

رشته تحصیلی و کد درس: مهندسی مدیریت پروژه

۱۳۱۲۱۶۳

کد سری سؤال: یک (۱)

استفاده از: —

مجاز است.

امام علی<sup>ع</sup>: برتری مردم به یکدیگر، به دانش‌ها و خردهاست؛ نه به ثروت‌ها و تبارها.

- Structural engineer designs ... ..... and beams and columns.
  - civilization
  - foundations
  - remediation
  - mass transit
- In fact, engineering was once divided in to only two fields .....and .....
  - civilization , mechanical
  - transportation, structural
  - building, machinery
  - military, civil
- In general there are three types of construction:
  - project manager , design engineer, project architect
  - building , heavy / highway , industrial
  - architecture, civil, building
  - structural , geotechnical ,environmental
- The design in construction usually consists of drawings and specifications prepared by a design team including : .....Cost engineers , mechanical engineers , electrical and tructural engineers.
  - architects , interior designers, excavator.
  - surveyors, interior designers , project engineers.
  - architects, interior designers ,civil engineers.
  - 4.mechanical engineers, road engineers , architects.
- Metal is used as structural frame work for large building such as .....or as an external surface covering.
  - manufactures
  - working plases.
  - sky scraper.
  - buildings in coldclimates.
- Concrete is made from combination of .....
  - aggregate and cement.
  - clay and cement.
  - water and clay
  - water and cement.
- The Heuaca Del Sol in peru and the Ciudellas of Chan Chan also in peru are.....structures.
  - sandy
  - straw
  - woody
  - adobe

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8. ....is a material used in masonry to fill the gaps between blocks in construction and bind the blocks together.  
 a. adobe                      b. cement                      c. mortar                      d. brick
9. ....is made of two or more layers of bricks with the units running horizontally bound together with bricks running transverse to the wall.  
 a. Fiberglass                      b. Pointing trowel                      c. Solid brick masonry                      d. Veneer masonry
10. The brick veneer wall is connected to the structural walls by .....metal strips that are attached to the structural wall as well as the mortar joints of the brick veneer wall.  
 a. brick ties                      b. brick trowel                      c. spirit level                      d. solid masonry
11. The most common use for Portland cement is the production of .....  
 a. mortar                      b. plaster                      c. clinker                      d. concrete
12. .... are often added to cement to improve its properties and lower its cost.  
 a. Hydrated lime                      b. Limestone's                      c. Sulfates                      d. Pozzolans
13. There are three fundamental stages in the production of Portland cement:  
 preparation of the raw mixture , production of the....., preparation of the cement  
 a. clinker                      b. sod                      c. cob                      d. concrete
14. What is the basic ingredient of concrete , mortar and plaster?  
 a. composite                      b. silicon                      c. Portland cement                      d. Plastic cement
15. Portland cement is made of grinding clinker with .....  
 a. limestone                      b. gypsum                      c. calcium                      d. quartzite
16. ....is one of the Portland cement ingredients.  
 a. Mortar                      b. Limestone                      c. Air-entertainer                      d. Gypsum
17. ....uses compressed air to shoot (cast) concrete to a frame or structure.  
 a. Shotcrete                      b. Concrete-saw                      c. Pigment                      d. Regular concrete
18. The ..... of concrete can be determined by the slump test.  
 a. tensile                      b. pebble                      c. workability                      d. aggregate
19. Concrete has low .....strength .  
 a. pebble                      b. compressive                      c. aggregate                      d. tensile

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20. Carbon acts as a hardening agent in .....

- a. steel                      b. brittle                      c. nickel                      d. chromium

21. Cast iron has more carbon than ..... Iron.

- a. crystal                      b. melted                      c. pyrite                      d. wrought

22. ....also called ferroconcrete in some countries, is concrete in which rebar's or fibers have been incorporated to strengthen the material that would otherwise be brittle.

- a. Reinforced concrete    b. Adobe clay                      c. Portland cement                      d. Thermal expansion

23. Increasing the amount of carbon makes steel more .....

- a. brittle                      b. softer                      c. standard                      d. weaker

24. The most common gas welding process is .....also known as .....welding.

- a. air acetylene, oxygen                      b. air acetylene, hydrogen  
c. oxy fuel welding, oxy acetylene                      d. water torch, plastic

25. The .....becomes law of a particular jurisdiction when formally enacted by the appropriate authority.

- a. building structure                      b. building code  
c. standard organization                      d. nonbinding structure

26. ....is about systems of piping .

- a. Air circulation                      b. Safety                      c. Plumbing                      d. Model code

27. Select the correct answer.

- a. Shallow foundations are adequate and structural loads need to be transmitted to deeper soil or rock.  
b. Spread footings are the most economical deep foundations.  
c. Loads prevent stresses, deformations and displacements in structures.  
d. A foundation is a structure that transmits loads from a building or road to the underlying ground.

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28. Select the correct answer.

- a. Veneer means cover of something
- b. Masonry isn't a durable form of construction.
- c. Gypsum mortar is harder than cement mortar
- d. Civil engineering is a sub-discipline of environmental engineering.

29. What is the correct answer?

- a. Type ii Portland cement is known as common cement.
- b. Type iii Portland cement is known to have moderate sulfate resistance.
- c. Type iii Portland cement is known for its high early strength.
- d. Cement type V is known for its low heat of hydration.

30. Select the correct answer.

- a. A building code is a set of safety for constructed objects.
- b. Welding is a fabrication process that gains materials usually wood and cement.
- c. Fiber-reinforced doesn't use in shotcrete .
- d. Cooper is a metal alloy whose major component is iron with carbon being the primary alloying.