



سری سوال : یک ۱

زمان آزمون (دقیقه): تستی : ۶۰ تشریحی : ۰

تعداد سوالات : تستی : ۳۰ تشریحی : ۰

عنوان درس : زبان تخصصی

رشته تحصیلی / کد درس : مهندسی مدیریت پروژه (چندبخشی) ۱۲۱۲۱۶۳

1-Dam design and construction reducing flooding of lower drainage is an important subject of .....

- |                              |                             |
|------------------------------|-----------------------------|
| 1. architectural engineering | 2. geotechnical engineering |
| 3. environmental engineering | 4. mechanical engineering   |

2-..... is concerned with moving people and goods efficiently and safely.

- |                               |                              |
|-------------------------------|------------------------------|
| 1. Transportation engineering | 2. Electrical engineering    |
| 3. Biomedical engineering     | 4. Architectural engineering |

3-Rust is the substance formed when iron compounds corrode in the presence of ..... and .....

- |                        |                          |
|------------------------|--------------------------|
| 1. oxygen and hydrogen | 2. oxygen and water      |
| 3. hydrogen and water  | 4. nitrogen and hydrogen |

4-Which one is related to types of construction?

- |             |                  |               |                |
|-------------|------------------|---------------|----------------|
| 1. building | 2. heavy/highway | 3. industrial | 4. all choices |
|-------------|------------------|---------------|----------------|

5-Which one of footings are the most economical shallow foundation types?

- |           |                                   |
|-----------|-----------------------------------|
| 1. spread | 2. combined                       |
| 3. mat    | 4. none of choices are economical |

6-A cat's eye is a safety device used in ..... construction in the United Kingdom.

- |              |        |         |        |
|--------------|--------|---------|--------|
| 1. false eye | 2. toy | 3. road | 4. car |
|--------------|--------|---------|--------|

7-A ..... is a person who secures funding for the project.

- |               |                          |
|---------------|--------------------------|
| 1. surveyor   | 2. real estate developer |
| 3. contractor | 4. construction manager  |

8-Concrete is a composite building material made from the combination of .....and a binder such as cement.

- |              |         |         |          |
|--------------|---------|---------|----------|
| 1. aggregate | 2. wood | 3. clay | 4. alloy |
|--------------|---------|---------|----------|

9-A ..... is a structure that holds back earth. It stabilizes soil and rock from down slope movement or erosion and provides support for vertical or near-vertical grade changes.

- |                   |        |           |          |
|-------------------|--------|-----------|----------|
| 1. retaining wall | 2. dam | 3. bridge | 4. track |
|-------------------|--------|-----------|----------|



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10- Brickwork, like unreinforced concrete, has little ....., and works by everything being kept in compression.

- |                      |                     |
|----------------------|---------------------|
| 1. pressure strength | 2. tensile strength |
| 3. efficiency        | 4. advantages       |

11- What kind of bond is the most common bond used today in the world?

- |                 |                 |                 |                   |
|-----------------|-----------------|-----------------|-------------------|
| 1. English bond | 2. Flemish bond | 3. Chinese bond | 4. Stretcher bond |
|-----------------|-----------------|-----------------|-------------------|

12- Which one of the following materials is an artificial stone?

- |          |         |         |           |
|----------|---------|---------|-----------|
| 1. brick | 2. rock | 3. sand | 4. gravel |
|----------|---------|---------|-----------|

13- Mortar is a mixture of .....

- |                          |                              |
|--------------------------|------------------------------|
| 1. gravel, water, cement | 2. sand, water, cement       |
| 3. gypsum, cement, sand  | 4. quicklime, gypsum, cement |

14- ..... is a material used in masonry to fill the gaps between blocks in construction and bind the blocks together.

- |        |           |           |         |
|--------|-----------|-----------|---------|
| 1. mud | 2. mortar | 3. gravel | 4. wood |
|--------|-----------|-----------|---------|

15- Gas tungsten arc welding (GTAW) uses a nonconsumable ..... made of tungsten.

- |              |         |         |        |
|--------------|---------|---------|--------|
| 1. electrode | 2. wire | 3. pipe | 4. gas |
|--------------|---------|---------|--------|

16- The common materials of masonry construction are .....

- |                             |                        |
|-----------------------------|------------------------|
| 1. granite, limestone, tile | 2. sand, gypsum, wood  |
| 3. mortar, paste, cement    | 4. gravel, clay, paste |

17- Solid masonry, without ..... reinforcement tends to have very limited applications in modern wall construction.

- |         |             |          |           |
|---------|-------------|----------|-----------|
| 1. wood | 2. concrete | 3. steel | 4. hybrid |
|---------|-------------|----------|-----------|

18- The brick veneer wall is connected to the structural walls by .....

- |         |               |            |          |
|---------|---------------|------------|----------|
| 1. wood | 2. brick ties | 3. veneers | 4. studs |
|---------|---------------|------------|----------|

19- Reinforced concrete called ..... in some countries.

- |                          |                  |
|--------------------------|------------------|
| 1. prestressed concrete  | 2. ferroconcrete |
| 3. poststressed concrete | 4. 1 & 3         |

20- A..... is a structure that transmits loads from a building to the underlying ground.

- |          |               |         |           |
|----------|---------------|---------|-----------|
| 1. truss | 2. foundation | 3. beam | 4. girder |
|----------|---------------|---------|-----------|



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21- Based on structure and material used, dams are classified as .....

- |                 |                    |
|-----------------|--------------------|
| 1. timber dams  | 2. embankment dams |
| 3. masonry dams | 4. all choices     |

22- A .....is a section of dam designed to pass water from the upstream side of a dam to the downstream side.

- |         |           |             |          |
|---------|-----------|-------------|----------|
| 1. span | 2. source | 3. spillway | 4. shaft |
|---------|-----------|-------------|----------|

23- Concrete is a mixture of ..... and stone aggregate.

- |                    |           |
|--------------------|-----------|
| 1. portland cement | 2. gravel |
| 3. sand            | 4. clay   |

24- Which kind of dam is usually temporary and may be demolished or removed when the project is completed?

- |                   |              |
|-------------------|--------------|
| 1. embankment dam | 2. earth dam |
| 3. arch dam       | 4. cofferdam |

25- ..... is a subject of the general practice of urban planning.

- |                           |                             |
|---------------------------|-----------------------------|
| 1. Mechanical engineering | 2. Urban engineering        |
| 3. Electrical engineering | 4. Geotechnical engineering |

26- Concrete and steel have ..... and ....., respectively.

1. high pressure strength - high tensile strength
2. high tensile strength - low tensile strength
3. low pressure strength - low tensile strength
4. high tensile strength - high tensile strength

27- If bricks are put down end-to-end with the long side facing you (stretchers) and then another row on top, the wall thickness is ..... a brick.

- |         |               |              |              |
|---------|---------------|--------------|--------------|
| 1. half | 2. one fourth | 3. one third | 4. one fifth |
|---------|---------------|--------------|--------------|

28- Prestressing is one technique used to boost the ..... strength of poured.

- |            |             |            |            |
|------------|-------------|------------|------------|
| 1. tensile | 2. pressure | 3. torsion | 4. bending |
|------------|-------------|------------|------------|

29- To supply the electrical energy necessary for arc welding processes, which power supplies can be used?

- |                        |  |
|------------------------|--|
| 1. constant current    | 2. constant voltage                      |
| 3. constant resistance | 4. constant current and constant voltage |

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30- ..... is a fabrication process that joints materials, usually metals or thermoplastics, by causing coalescence.

1. welding                      2. masonry                      3. painting                      4. joinery