

YouTube Channel - Engineering Solution by Abel M.

1. Is a layer of natural soil prepared to receive the stress from sub – base layer
 - A. Subgrade
 - B. Asphalt
 - C. Base course
 - D. Surface Course
2. Static wind loading is different from earthquake loading because it depends on
 - A. The geometry/shape of the building
 - B. The stiffness of the structure
 - C. The soil type of the foundation
 - D. The mass of the structure
3. Which one of the following does NOT contribute to the total settlement in soils?
 - A. Primary consolidation settlement.
 - B. Secondary settlement.
 - C. Immediate settlement.
 - D. Tertiary consolidation settlement.
4. Sight distance at intersections may be used for the following except.
 - A. Enable approaching vehicle to change the speed.
 - B. Enable parking at road intersections.
 - C. Enable approaching vehicle to stop.
 - D. Enable stopped vehicle to cross a main road.
5. Which one of the following parameters contribute less to the shear strength of reinforced concrete beams?
 - A. Longitudinal reinforcement ratio
 - B. Shear reinforcement amount
 - C. Compression reinforcement ratio
 - D. Concrete strength
6. What is NOT the purpose of valuation
 - A. For buying or selling
 - B. Acquisition
 - C. To get over valued loan
 - D. For Security of loans or mortgage

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7. Is combinations of ramps and grade separations designed as a system of interconnecting roadways to separate the turning and through movements at the junction of two or more roads.
 - A. Grade separated intersection
 - B. At-grade intersection
 - C. Channelization
 - D. Interchange**
8. A project closeout does not constitute
 - A. Project planning**
 - B. Contract closeout
 - C. Project Acceptance
 - D. Project completion
9. While designing a retaining wall, what remedial measure do you consider if the factor of safety against sliding falls down below the requirement?
 - A. Increase the height of the wall.
 - B. Decrease the height of the wall.
 - C. Decrease the base width of the wall.
 - D. Increase the base width of the wall.**
10. Minimum concrete cover is provided in RC members to provide except
 - A. Increased bond strength
 - B. Increased durability such as protecting the reinforcement from corrosion
 - C. Increased fire resistance**
 - D. Increased flexural strength
11. One of the following is used for the computation of the volume of earthwork in a road project.
 - A. Triangular formula
 - B. Spherical formula
 - C. Prismoidal formula**
 - D. Simpson's 5/8 formula

12. An effective and efficient procurement method ensures the following rights, except
- A. The Right Quality
 - B. The Right Quantity
 - C. The Right profit
 - D. The Right Counterpart
13. The following is NOT considered as the main sources of dampness in buildings during service
- A. Water used for concrete curing
 - B. Moisture rising up the walls from the ground
 - C. Rain travel from wall tops
 - D. Rain Beating Against External Walls
14. One of the following is NOT an environmental issue related to soil boring during site investigation.
- A. Pneumatic caissons are less health hazard than other types of caissons
 - B. Construction of sheet pile walls can affect aquatic life
 - C. Deep excavation can cause damage on nearby buildings
 - D. A collapse of struts in cofferdams can cause life lose
15. One of the following tasks is NOT covered in quantity surveying
- A. Preparation of approximate (preliminary) cost estimate at the very early stage of the project
 - B. Preparation of Specification
 - C. Taking measurements of civil works
 - D. Preparation of construction drawing
16. There is a plan to construct a high-rise building on cast-in-situ pile foundation with about 50 m length. Geotechnical site investigation at the site dictates that ground water is located at shallower depth and the top 10 m layer of the site is sand soil followed by clayey sand. Using these data, which of the following is NOT true?
- A. As the piles are cast-in-situ piles, the quality of construction of the piles can be reduced.
 - B. Use of casings during the construction of the piles is a must.
 - C. Caution must be made while pouring the concrete as concrete segregation can happen.
 - D. As there will be flow of water to the bore hole, it is a good idea to reduce the water cement ratio during the concrete production.