

- (vii) Select the correct answer for the blank :The Elastic Continuum Approach is commonly used in analyzing _____.
- a) Tension piles
b) Laterally loaded piles
c) Under reamed piles
d) Caissons
- (viii) Select the correct answer for the blank :Pile deflection is primarily governed by _____.
- a) Pile material
b) Pile diameter
c) Pile length
d) Pile spacing
- (ix) Select the correct answer for the blank :The behavior of laterally loaded piles can be analyzed using _____.
- a) Elastic continuum approach
b) Plastic analysis
c) Limit equilibrium method
d) None of this
- (x) Select the correct answer for the blank :Under reamed piles are particularly effective in _____.
- a) Loose soils
b) Cohesive soils
c) Granular soils
d) None of this
- (xi) Choose the correct answer for the blank : _____ relies on its weight for stability.
- a) Cantilever retaining wall
b) Gravity retaining wall
c) Counterfort retaining wall
d) Sheet pile retaining wall
- (xii) Choose the correct answer for the blank :Earth pressure computations for retaining walls involve the determination of _____.
- a) Wind loads
b) Water pressure
c) Soil pressure
d) Temperature effects
- (xiii) Choose the correct answer for the blank :The stability of a retaining wall is primarily affected by _____.
- a) Soil type and slope
b) Wall height and thickness
c) Ambient temperature
d) Structural material
- (xiv) Choose the correct answer for the blank : _____ is more suitable for tall structures.
- a) Cantilever retaining wall
b) Gravity retaining wall
c) Counterfort retaining wall
d) Sheet pile retaining wall
- (xv) Choose the correct answer for the blank :Anchored sheet piling relies on _____.
- a) The weight of the soil
b) Additional structural support
c) Gravity
d) None of this

Group-B

(Short Answer Type Questions)

3 x 5=15

2. List the various methods of soil exploration techniques. (3)
3. Explain the scope of soil investigation. (3)
4. List the different types of samplers. (3)
5. Explain the method of Hammer driving. (3)
6. Explain the method of vibration driving and jetting. (3)

OR

Explain the effects of Effects of pile driving. (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Describe the Remedial measures against harmful settlements. (5)

- 8. Describe the different types of piles according to Material of construction. (5)
- 9. Explain the methods for estimating the load –carrying capacity of a single pile. (5)
- 10. Explain dynamic cone penetration test. (5)
- 11. Explain the Procedure for designing the R.C.C. strip footings. (5)
- 12. Justify the Procedure for proportioning and designing of the Trapezoidal combined footings. (5)

OR

Justify the Procedure for proportioning and designing of the strap footings. (5)
