

6. What is the primary factor that influences the choice of materials for special structure construction? CO1- U
- (a) Availability of materials
 - (b) Aesthetics
 - (c) Cost-effectiveness
 - (d) Architectural design and engineering requirements
7. Which type of material is commonly used in the externally bonded reinforcement technique for strengthening structures? CO1- U
- (a) Wood
 - (b) Plastic
 - (c) Fiber-reinforced polymers (FRP)
 - (d) Glass
8. What is the primary purpose of subgrade waterproofing in construction? CO1- U
- (a) To enhance structural integrity
 - (b) To provide insulation
 - (c) To prevent moisture infiltration
 - (d) To improve aesthetics
9. Which of the following is NOT a common method used in building demolition? CO1- U
- (a) Implosion
 - (b) Wrecking ball
 - (c) Controlled collapse
 - (d) Elevation
10. What is building demolition? CO1- U
- (a) The construction of a building
 - (b) The renovation of a building
 - (c) The process of tearing down a building
 - (d) The maintenance of a building

PART – B (5 x 2= 10Marks)

11. What are the primary types of offshore structures, and what are their purposes? CO1- U
12. What are some potential challenges or limitations of vacuum dewatering? CO1- U
13. What is the general construction sequence for skyscrapers? CO1- U
14. What are the key considerations for a successful underpinning project? CO1- U
15. What role do demolition contractors play in a demolition project? CO1- U

PART – C (5 x 16= 80Marks)

16. (a) What is Driving well & Caisson in construction and engineering? CO1 U (16)
What are some safety considerations when working with?
Or
- (b) Under what circumstance Offshore structures been constructed? CO1- U (16)
What are the laying operations involved?
17. (a) What are large span structures? Explain the various launching CO1- U (16)
techniques with neat sketch.
Or
- (b) Describe about aerial transporting and its methods in detail. CO1- U (16)
18. (a) What are the points to be considered in the erection of a lattice CO1- U (16)
tower?
Or
- (b) What are the various support structure for heavy equipment and CO1- U (16)
machinery in heavy industries?
19. (a) Elaborate on various techniques used for foundation repair and CO1- U (16)
stabilization.
Or
- (b) How would you strengthen a slab? Explain various common CO1- U (16)
methods.
20. (a) As a engineer, illustrate the various pre-planning activities to be CO5- Ana (16)
done during demolition and suggest suitable remedy / protection
against it with minimum economical support.
Or
- (b) Consider a RC structure in a marine environment, discuss the CO5- Ana (16)
possible types of distress likely to affect the structure and suggest
suitable remedy/protection for the structure.

