



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 is the substructure in construction? 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. Enlist various demolition methods. CO1- U

PART – C (5 x 16= 80Marks)

16. (a) Explain in detail about Pipe Jacking & Box Jacking construction methodologies. CO1 U (16)
- Or
- (b) What are the various Tunneling & Piling techniques used in construction? CO1- U (16)
17. (a) Explain with neat sketch about vacuum dewatering of concrete flooring. CO1- U (16)
- Or
- (b) Discuss in details about Concrete paving technology CO1- U (16)
18. (a) What are the points to be considered in the erection of a lattice tower? CO1- U (16)
- Or
- (b) What are the various support structure for heavy equipment and machinery in heavy industries? CO1- U (16)
19. (a) Elaborate on various techniques used for foundation repair and stabilization. CO1- U (16)
- Or
- (b) How would you strengthen a slab? Explain various common methods. CO1- U (16)
20. (a) Explain various techniques that used to evaluate the building without damaging it. CO1- U (16)
- Or
- (b) Enumerate the considerations before doing a demolition process. CO1- U (16)

