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CE2401-DESIGN OF REINFORCED CONCRETE AND BRICK MASONRY

QUESTION BANK

UNIT-1

PART -A

1. What is a retaining wall?
2. What are the disadvantages of gravity retaining walls?
3. What are the types of retaining walls?
4. What is a counterfort retaining wall?
5. What is a cantilever type retaining wall?
6. What are the factors acting on a retaining wall?
7. Define Factor of Safety generally?
8. Define Factor of Safety generally?
9. Give the criteria for the design of gravity retaining wall?
10. What are the stability conditions should be checked for the retaining wall?
11. Give the minimum factor of safety for the stability of a retaining wall?
12. If a retaining wall of 8 m high is retained from sliding, what will be the total earth pressure on the per unit length of wall?
13. A masonry retaining wall of 7 meter height retains sand. The properties of the sand are $\rho_s = 17.8 \text{ kN/m}^3$ and $\gamma_{sat} = 26.4 \text{ kN/m}^3$ $\phi = 35^\circ$ using Rankine's theory determine active earth pressure at the base when the backfill is (i) Dry, (ii) saturated and (iii) submerged.
14. What is meant by battering?
15. What is meant by surcharge?
16. What is a gravity retaining wall?
17. What is meant by cohesionless soil backfill?
18. What is the function of counterforts in a retaining wall?
19. What is meant by backfilling of retaining wall?
20. What is the design of stem key necessary?
21. Draw the detailed shape of Cantilever retaining wall?

PART -B

1. Design a Cantilever retaining wall by using the following backfill.

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