Roll No.

Total Pages: 2

BT-6/M-20

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GEOTECHNOLOGY-II Paper–CE-308E

Time: Three Hours] [Maximum Marks: 100

Note: Attempt *five* questions in all, selecting at least *one* question from each unit.

UNIT-I

- 1. What is earth dam? What are the causes of failure of earth dam? What in the criteria for safe design of earth dam. 20
- **2.** What is stability number? What is its utility in the analysis of stability of slopes? Discuss stability chart and its use.

20

UNIT-II

- 3. (a) What do you understand by braced cuts? Discuss lateral earth pressure on sheeting.
 - (b) Discuss design of various components of bracing. 10
- **4.** What is Coffer dam? Discuss each type of Coffer dam in detail with neat sketch.

UNIT-III

5. What are different types of sheet pile walls? Draw the sketches showing the pressure distribution. Also discuss the proceedure for checking the stability of a cantilever sheet pile wall.

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6. Discuss anchored sheet pile with free earth support method for cohesive and Cohesionless soil. 20

UNIT-IV

- 7. Write notes on:
 - (a) Grouting.
 - Bituminous stabilization. (b)
 - Use of admixtures. (c)
 - (d) Reinforced earth.

20

- 8. Discuss the design criteria for foundations of (a) reciprocating machines. 12
 - What is vibration isolation? How is it done? 8 (b)