F 3590 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Eighth Semester

Branch : Civil Engineering

SOIL STABILITY ANALYSIS (Elective III) (C)

(Old Scheme—Prior to 2010 Admissions)

[Supplementary/Mercy Chance]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 *marks.*

1. What is confined flow ?
2. Write a note on piping ?
3. What are modes of slope stability ?
4. Write a note on Taylors chart.
5. What are the causes of landslides ?
6. Write a note on instrumentation with respect to landslides.
7. What are the reasons for earthquake ?
8. What is liquefaction ?
9. What is underpinning ?
10. Write a note on moving structures.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*
Each question carries 12 *marks.*

11. Explain Laplace's equations for two dimensional flows.

Or

12. Describe determination of seepage in antistrophic conditions.
13. Explain Swedish circle method of slop analysis.

Or

14. Explain Bishop's method of stabilization.

Turn over

15. Explain the methods of preventing landslides.

Or

16. Explain the classification and analysis of landslides.

17. Explain the earthquake effects on soil foundation system.

Or

18. Explain earthquake resistant construction methods.

19. Explain shoring.

Or

20. Briefly explain pit underpinning with neat diagram.

(5 × 12 = 60 marks)