

Total No. of Questions :4]

SEAT No. :

P764

[Total No. of Pages :2

[5315] - 353

T.Y.B.Sc.

GEOGRAPHY

GG - 335 : Geography of Soils (Part - I)
(2013 Pattern) (Semester - III) (Paper - IX)

Time : 2 Hours]

[Max. Marks :40

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Use of map stencils is allowed.*
- 4) *Draw neat diagrams and sketches wherever necessary*

Q1) Answer the following questions in two or three sentences (any ten). **[10]**

- a) What are peds?
- b) Name the horizons of the soil profile.
- c) What is 'Illuviation'?
- d) Write the types of clay minerals.
- e) What is Montmorillonite?
- f) Give the methods of mechanical analysis of soils?
- g) Define gravitational water.
- h) Define Intrazonal soils.
- i) What is redox potential?
- j) Write the types of soil erosion.
- k) Define Biological weathering.
- l) What is water holding capacity of soils.
- m) Write the types of Azonal soils.

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Q2) Write short notes (any two) [10]

- a) Importance of soil studies.
- b) Components of soils.
- c) Alkalization.
- d) Cation Anion Exchange

Q3) Answer the following questions in 100 words (any two) [10]

- a) Define pedology and explain the brief history of pedology.
- b) Explain how weathering affects the soil structure and texture.
- c) Write chemical processes of oxidation- Reduction and Hydrogen ion concentration.
- d) Give an account of zonal soil classification.

Q4) Answer the following questions in 200 words (any one) [10]

- a) Draw a neat sketch of ideal soil profile and explain the factors affecting on soil profile development.
- b) Explain any five pedogenetic processes.

