

19

SVKM's NMIMS
SCHOOL OF AGRICULTURAL SCIENCES AND TECHNOLOGY

Programme: B.Sc. Agriculture

Year: I Semester: I

Academic Year: 2019-20

Subject: Fundamentals of Soil Science

Marks: 50

Time: 11.00 am - 1.00 pm

Durations: 2 (Hrs)

No. of Pages: 01

Date: 24 December 2019

Final Examination

Note: Attempt all questions:

- Q1. Fill in the blanks:** **10 X 1 = [10]**
- a. _____ and _____ are the example of layered silicates
- b. _____ is example for tectosilicates.
- c. New alluvium is termed as _____ and old alluvium is termed as _____.
- d. _____ is entry of water into soil at air-soil interface due to sorption and vertical downward flow.
- e. _____ and _____ are the mechanism of soil air movement.
- f. The degree of adhesion or bonding of soil particles in relation with moisture content is called as _____ and noted as _____ in soil profile.
- Q2. Give a brief account on any five:** **5 X 2 = [10]**
1. Goldich's stability series
 2. Master Horizons
 3. Soil Colloids
 4. Gaseous Exchange in soils
 5. Soil taxonomy
 6. Approaches of Soil Study
 7. Atterberg's limits of consistency
- Q3. Describe in details on any three:** **10 X 3 = [30]**
- A. What are the types of weathering and mention the factors of soil formation in detail?
- B. Mention layered silicate clays and explain in detail.
- C. What are the types of rocks present in earth? and explain rock cycle with examples.
- D. How structure is important in soils and explain the kinds, classes and grades of soil structure.