Pramukh Swami Science and H.D.Patel Arts College, Kadi
CC-Agriculture and Soil Sciences
Internal Examination Semester I November 2016
Subject: 102 Fundamentals of Soil Sciences, Fertility & Management
AS 102

Time: 2 hrs(10.00-12.00) Date: 9/11/2016 Marks: 40

Q.1 Answer any 10 questions. Each question carries 1 mark. [10*1=10]

1. South Gujarat having _____ soil.
   a) sandy soil b) lime soil c) black soil d) saline soil
2. What is the formula of porosity?
3. _____ soil having the pH of 7.5 to 8.5.
   a) sandy soil b) lime soil c) black soil d) saline soil
4. A well developed soil have _____.
   a) A-horizon b) B-horizon c) C-horizon d) all of these
5. What is full form of CSHT.
6. Match the following:

1. Solum	A. Combination of A and B horizon
2. Elluvial (A) horizon	B. Organic matter and minerals
3. Illuvial (B) horizon	C. Minerals
4. C horizon	D. Rock material

7. Major source of water used by the plant is _____.
   a) hygroscopic water b) capillary water c) inter space water
   d) gravitational water
8. Plant absorbs nutrients mostly through _____.
   a) leaves b) stem c) roots d) seeds
9. Define: mineral nutrition.
10. The transformation of organic nitrogenous compounds into ammonia is known as _____.
    a) nitrification b) deammonification c) denitrification
    d) ammonification
11. The minor nutrients are:
    a) Fe, Zn, Mn b) N, P, K c) C, H, O d) none of these

Q.2 Answer any 4 questions. Each question carries 05 marks. [4*4=20]

1. Explain soils of Gujarat. Explain essential elements (nutrients).
2. Explain soil pH, density and porosity.
3. Describe saline soil.
4. Describe soil water with diagram.
5. Explain modern concept of soil classification.

Q.3 Answer any 1 questions. Each question carries 10 marks. [1*10=10]

1. Explain soil management in detail.
2. Explain acid soil and soil profile with diagram.