

Pramukh Swami Science and H.D.Patel Arts College, Kadi  
CC-Agriculture and Soil Sciences  
Internal Examination Semester I  
Subject: AS 102

Time: 2 hrs

Date: 25/11/2014

Marks: 40

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

1. Soil formation is an indigenous process. True or False.
2. N, P and K are \_\_\_\_\_ nutrients.  
a) Micro                      b) Major  
c) Basic                      d) Mineral
3. Define the term: soil or pedology (any one)
4. Match of the following:
  1. Organic horizon                      A. Organic matter
  2. Eluvial (A) horizon                      B. Organic matter and minerals
  3. Illuvial (B) horizon                      C. Minerals
  4. C horizon                      D. Rock material
5. Full form of VAM or pH (any one).
6. A soil solum includes  
a) A horizon                      b) B horizon  
c) A+B horizon                      d) C horizon
7. Capillary water also known as \_\_\_\_\_  
a) Hygroscopic water                      b) Available water  
c) Capillary water                      d) Gravitational water
8. Define the term: Hygroscopic water or Available water (any one)
9. \_\_\_\_\_ nutrients are required to plants in small quantity.  
a) Micro    b) Major    c) Basic    d) Mineral
10. Which of the following are basic nutrients?  
a) N, P, K    b) Ca, Mg, C    c) Mn, Cu, Mo    d) C, H, O

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

1. Define soil process. Explain in detail.
2. Explain density of soil.
3. Explain acid soil.
4. Explain alkaline soil.
5. Classify revised soil (7<sup>th</sup> order). Explain soils of Gujarat.

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

1. Define soil profile. Describe soil profile with labeled diagram.
2. Define soil water. Describe soil water with diagram.