

PRAMUKH SWAMI SCIENCE AND H. D. PATEL ARTS COLLEGE, KADI  
COMMUNITY COLLEGE

Advanced Diploma in Agriculture and Soil Sciences  
Semester II Examination, March 2019  
Paper AS 201 Soil Fertility and Nutrient Management

Time: 2 Hours

Date: 25/03/2019

Marks: 40

**Q.1 Answer all questions. Each question carries 1 mark.**

**[10\*1=10]**

1. Leaf ash method use to estimate \_\_\_\_\_ content from the plants.  
A) Carbon                      B) Nitrogen                      C) Phosphorus                      D) Mineral
2. Major two nutrients which require by plants in largest amount are N and \_\_\_\_\_.  
A) Zinc                      B) Copper                      C) Sulphur                      D) Potassium
3. Nitrogen content in all fertilizers comes from \_\_\_\_\_.  
A) Water                      B) Gas                      C) Air                      D) None of above
4. Which method is use to estimate mineral content from the plants.  
A) Leaf ash                      B) stem ash                      C) root ash                      D) flower ash
5. soil \_\_\_\_\_ means crop producing capacity of a soil which measured in yields.  
A) Productivity                      B) fertility                      C) management                      D) minerals.
6. plant ass contain about \_\_\_\_\_ mineral elements.  
A) 10                      B) 20                      C) 30                      D) 40
7. \_\_\_\_\_ is Nitrogen fixing Microorganism.  
A) *Azotobacter*                      B) *Pseudomonas*                      C) *Bacillus sp.*                      D) None of These.
8. Balanced fertilizer use is most desirable because it \_\_\_\_\_.  
A) Add all nutrients                      B) add NPK                      C) correct all deficiencies                      D) none of above
9. What is full form of PSB?
10. Fertilizers which contain two or more plant nutrient are known as complex fertilizers, true or false?

**Q.2 Answer any 4 questions. Each question carries 5 marks.**

**[4\*5=20]**

1. Explain potassic fertilizers with detail.
2. Write a note on vermicompost
3. Explain organic manure in detail.
4. Explain crop rotation of soil management in detail
5. Write a note on vermicompost.

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

**[1\*10=10]**

1. Explain factor affecting of soil fertility and productivity
2. Explain soil management in detail.