

**HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN
COMMUNITY COLLEGE**

**Advanced diploma in Agriculture and Soil Sciences
Semester II END TERM Examination, June, 2015
Paper AS-201 Soil fertility and nutrient management**

Time: 2 hrs

Marks: 40

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

[10*1=10 Marks]

1. Mineral content of plants can be estimated from _____
A) Leaf ash B) root ash C) stem ash D) all of these
2. VAM helps in increasing _____ availability.
A) Phosphorous B) Iron C) Calcium D) Sodium
3. Proteins are chains of _____.
A) Nucleic acids B) Amino acids C) Carboxylic acids D) Deoxyribonucleic acids
4. Give any two names of chemical modifiers which are help to reduce soil chemical imbalances.
5. Foliar application method is suitable to using _____ nutrients.
A) Basic B) Macro C) Micro D) none of these
6. Which of the following does not come under the category of 'secondary Nutrient' for plant growth?
a) Magnesium b) oxygen c) sulphur d) calcium
7. Define Biofertilizer.
8. _____ is nitrogen fixing Microorganism
a) *Azotobacter* b) *Pseudomonas* c) *Bacillus sp.* d) None of These
9. Which is included in method of band placement fertilizer application?
a) plough sole b) deep c) localized d) hill
10. Give two example of Free living Nitrogen fixing Microorganisms.

Q.2 Answer any 4 questions. Each question carries 05 marks.

[4*5=20 Marks]

1. Explain foliar application with their demerits
2. Write a brief note on: time of manure and fertilizer application.
3. Explain role of micro nutrients in plants.
4. Write a note on vermicompost
5. Discuss the Nitrogenous chemical fertilizers
6. Enlist the various macro nutrients of plants and discuss any one.

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

[1*10=10]

1. Explain soil management in detail.
2. Describe the classification of plant mineral nutrients. Explain NPK as essential macro nutrients.