

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN
COMMUNITY COLLEGE

Advanced diploma in Agriculture and Soil Sciences
Semester II Internal Examination, March, 2017
Paper AS-201 Soil fertility and nutrient management

Time: 10:00 to 12:00 PM

Date: 21/3/2017

Marks: 40

Q.1 Answer any 10 questions. Each question carries 1 mark.

[10*1=10 Marks]

1. What is full form of CSHT?
2. Nutrients which are require to plants in less or trace quantity are known as _____ nutrients.
A) Macro B) Micro C) essential D) all of the above
3. 40 mineral elements are available in plant ash in which _____ minerals are essential minerals and _____ are non essential minerals.
A) 17-23 B) 18-22 C) 19-21 D) 20-20
4. Mixed fertilizers are mixture of Straight fertilizers and _____ fertilizers.
A) Compound B) Component C) Critical D) Complex
5. In 5-10-10 mixed fertilizer, 5 shows 5% Nitrogen, 10 shows 10% P₂O₅ and 10 shows 10% of _____.
A) Nitrogen B) Phosphorus C) Potassium Oxide D) Sulphur
6. Urea is example of _____ fertilizer.
A) Straight B) Complex C) Mixed D) Chemical
7. Poor growth of fruit development is due to the deficiency of _____ secondary nutrient.
A) Nitrogen B) Potassium C) Phosphorus D) Calcium
8. Cellulolytic and lignolytic are example of _____ making microorganisms.
A) Nitrogen B) Phosphate C) Compost D) Symbiotic
9. Define soil fertility or soil productivity.
10. Phosphorus fertilizers are classified in _____ major groups.
A) 1 B) 2 C) 3 D) 4
11. Organic manure is farm Yard Manures (FYM) and inorganic manures are _____.
A) Biofertilizers B) Fertilizers C) Vermicompost D) Soil fertility

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

[4*5=20 Marks]

1. Explain organic amendments (modifiers) with their types.
2. Give the difference between (i) Open formula fertilizer and Closed formula fertilizer
(ii) Solid fertilizer and Liquid fertilizer.
3. Explain commercial fertilizers with their classification.
4. Explain classification of biofertilizers.
5. Explain Nitrogenous fertilizers with their types.

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

[1*10=10]

1. Define mineral nutrients. Explain classification of plant nutrition with the functions of essential nutrients.
2. Explain manures with its definition and its types (organic manures, compost and night soil).