

Hemchandracharya North Gujarat University
Community College
Advance Diploma in Agriculture and Soil Science
Semester- IV

End Term Examination, April-2018

Subject Code: - AS- 403

Subject: - Organic farming, green house and polyhouse technology

Time: 2 hrs

Date: 26/04/2018

Marks: 40

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

[10*1=10]

1. Botanical name of sunhemp.

[A] *Sesbania aculeata*

[B] *Crotolaria juncea*

[C] *Vigna unguiculata*

[D] *Sesbania rostrata*

2. How much N: P: K contain present in FYM?

[A] 0.5 % N : 0.2 % P₂O₅ : 0.5 % K₂O

[B] 0.8 % N : 0.6 % P₂O₅ : 0.1 % K₂O

[C] 1.0 % N : 0.5 % P₂O₅ : 1.0 % K₂O

[D] None of these

3. Which one is the organic waste?

[A] Fish waste

[B] Crop waste

[C] Plastic waste

[D] All of these

4. Which one is the growth promoting rhizobacteria?

[A] *Pseudomonas*

[B] *Rhizobium*

[C] *Ectomycorriza*

[D] *Frankia*

5. In which composting phase nutrient is mineralized and humic acid and antibiotics are built-up?

[A] Cooling Phase

[B] Heating Phase

[C] Maturing Phase

[D] All of these

6. Define or Explain:

1. Organic farming
2. Bio-fertilizer
3. Vermicompost
4. Green manure
5. Composting

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

[4*5=20]

1. Write down the factors to consider before growing green manure.
2. Write down in detail about phosphate solubilizing bio fertilizers.
3. Write down the advantages of green manuring & method of green manure.
4. Write down the benefits of Vermicomposting.
5. Write down the application of bio fertilizer.

[P. T. O.]

Q.3 Answer any one. Each question carries 10 marks.

[1*10=10]

1. Write down in detail nitrogen fixing bio fertilizers.
2. Write down the application of Bio-fertilizer as a seed treatment and main field application.

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