

Hemchandracharya North Gujarat University
Community College
Advance Diploma in Agriculture and Soil Science
Semester- IV
Internal Examination, March-April: 2018
Subject Code: - AS- 403
Subject: - Organic farming, green house and polyhouse technology

Time: 2 hrs

Date: 31/03/2018

Marks: 40

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

[10*1=10]

1. Temperature of heating phase.

[A] 40 to 60 °C

[B] 60 to 70 °C

[C] 70 to 80 °C

[D] 80 to 100 °C

2. The _____ temperature is a typical and important part of the composting process.

[A] High Temperature

[B] Cold Temperature

[C] Medium Temperature

[D] Warm Temperature

3. Which composting phase having high P^H?

[A] Heating Phase

[B] Cooling Phase

[C] Maturing Phase

[D] None of these

4. Why bacteria having very high demand of oxygen during first phase of composting?

[A] For Food Preparation

[B] For Rapid Development

[C] For Compost Preparation

[D] None of these

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. Which type of problem are rise during composting process when temperature dos not rise?

[A] Microorganisms cannot develop

[B] Transformation process stop

[C] Too strong development of fungi

[D] Composting material is fouling

7. _____ is a stem nodulating green manure crop.

[A] *Crotalaria juncea*[B] *Sesbania aculeate*[C] *Sesbania speciosa*

[D] None of these

8. Which microorganisms is example of N₂ Fixing bio-fertilizer?[A] *Penicillium sp.*[B] *Rhizoctonia solani*[C] *Azotobacter*[D] *Bacillus sp.*

9. Which microorganisms is example of P solublizing bio-fertilizer?

[A] *Azotobacter*[B] *Penicillium*[C] *Azolla*[D] *Azospirillum*

10. Which microorganisms is example of symbiotic nitrogen fixers?

[A] *Rizobium*[B] *Azotobacter*[C] *Azospirillum*[D] *Acetobacter*

[P. T. O.]

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

[4*5=20]

1. Write down the application of Bio-fertilizer as a seed treatment and main field application.
- ✓ 2. Write down the benefits of Vermicompost.
- ✓ 3. Define organic farming and write down the benefits of green manures.
- ✓ 4. Write down the Vermicomposting technique in detail.
- ✓ 5. Write down the factors to consider before growing green manure.

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

[1*10=10]

1. Enlist the organic fertilizer and describe in detail all composting phase.
2. Describe in detail how to use green manure?

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