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Question Paper Code: 98A62

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

One Credit

Agriculture Engineering

19UAG862 – Vermi Compost Technology

(Regulation 2019)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (6 x 1 = 6 Marks)

1. Deep burrowing earthworms called CO2-App
(a) Endogeic species (b) Anecic species (c) b only (d) a&b
2. Vermicomposting, temperatures are kept generally kept below CO3-App
(a) 35°C. (b) 24⁰ C (c) 25⁰ C (d) 23⁰ C
3. Vermicomposting require moderate temperatures range from CO3-App
(a) 10-15⁰ C (b) 30-35⁰ C (c) 20-25⁰ C (d) 10-35⁰C
4. _____ is the Food processing waste CO1-U
(a) Canning industry waste (b) breweries waste
(c) dairy industry waste (d) All the above
5. Earthworm requires plenty of moisture for their growth and survival CO1-U
(a) 60–75 %. (b) 60-85% (c) 70-80% (d) above 60%
6. Earthworms are pH sensitive ranging from. CO3-App
(a) 4.5 to 9 (b) 5 to 7 (c) 7 to 8 (d) All the above

PART – B (6 x 2= 12 Marks)

7. What are the characteristics the earthworms for attaining during composting. CO1-U
8. Explain curing method of composting CO1-U
9. What is Principles of composting explain CO1-U
10. Give the details of types of composting and Technique CO1-U
11. Enlist the methods of vermi composting explain any one method. CO1-U

12. what are the characteristics the earthworms for attaining during composting. CO1-U

PART – C (2 x 16= 32 Marks)

13. (a) Explain the Vermi composting Acceleration of composting and enrichment of compost with bio-inoculants give elaborately. CO3-App (16)

Or

(b) Give the detailed information about Earthworms for bioconversion, Fragmentation and breakdown CO1-U (16)

14. (a) What are the steps involved process of vermi composting and mechanism of earthworm action. CO1-U (16)

Or

(b) Write the common problems you may experience while working with your vermi composting systems and the solutions CO1-U (16)