A Reg. No. : | | | | | | | | | | |

**Question Paper Code: U8A62**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

One Credit Course

Agriculture Engineering

21UAG862 - VERMICOMPOSTING TECHNOLOGY

(Regulations 2021)

Duration: 1.30 hours Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Example of Rice husk is called _____ CO1-U

(a) Rice husk, cereal residues (b) Millet straw (c) Wheat bran (d) all of the above

2. Topsoil dwelling earthworms _____ CO1 -U

(a) Endogeic species (b)Anecic species (c) a only (d)Both a &b

3. Deep burrowing earthworms called CO1 -U

(a) Endogeic species (b)Anecic species (c) b only (d)Both a &b

4. Vermicomposting, temperatures are kept generally kept below CO1 -U

(a) 35$^{o}$C (b) 24$^{0}$ C (c) ) 23$^{0}$ C (d) 25$^{0}$ C

5. Vermicomposting require moderate temperatures range from CO1 -U

(a) 10-15$^{0}$ C (b) 30-35$^{0}$ C (c) 10-35$^{0}$C (d) 20-25$^{0}$ C

6. _____ is the Food processing waste CO1 -U

(a) Canning industry waste (b) breweries waste

(c) dairy industry waste (d) all of the above

7. Earthworm requires plenty of moisture for their growth and survival CO1 -U

(a) 60–75 %. (b) 60-85% (c) 70-80% (d) above 60%

8. Earthworms are pH sensitive ranging from. CO1 -U

(a) 4.5 to 9 (b) 5 to 7 (c) 7 to 8 (d) NA

9. Psychrophiles means _____ CO1 -U

(a) low temperature microbes (b) medium temperature microbes

(c) high temperature microbes (d) none of the above

10. Mesophiles means _____ CO1 -U

(a) low temperature microbes (b) medium temperature microbes

(c) high temperature microbes (d) none of the above

PART – B (2 x 20 = 40 Marks)

11. (a) What are the steps involved process of vermicomposting and mechanism of earthworm action CO1 -U (20)

Or

(b) Vermicomposting making, what are the methods have been followed worldwide CO1 -U (20)

12. (a) Write the common problems you may experience while working with your vermicomposting systems and the solutions CO1 -U (20)

Or

(b) Explain the Vermicomposting Acceleration of composting and enrichment of compost with bio-inoculants give elaborately. CO1 -U (20)