

Roll No.

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Course: B.Vocem, Program: Agriculture
Subject: Vermicompost Production -1, Code: AGB-21305
Semester-III

Time: 03 Hours**Max Marks: 70****Instructions to the Students:**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of short answer type. All questions are compulsory. Each question carries 2 marks.
3. Section B comprises 8 long answer type questions out of which students must attempt any 5. Each question carries 10 marks.
4. Do not write anything on the question paper.

Q.No.	SECTION –A (SHORT ANSWER TYPE QUESTIONS)	Marks
1.	a) Discuss about the following <ol style="list-style-type: none"> i. Classification of earthworms ii. Economic importance of earthworms 	(2)
	b) Describe the importance of earthworms in maintaining soil structures.	(2)
	c) What are the differences between local and exotic species of earthworms?	(2)
	d) Write down the importance of earthworms on following heads <ol style="list-style-type: none"> i. Bio-transformation of residue ii. Production of organic fertilizers 	(2)
	e) Elucidate in brief about the preparation of different vermi-beds.	(2)
	f) How pH, EC and light can influence the earthworms activities?	(2)
	g) Discuss in brief about <ol style="list-style-type: none"> i. Harvesting of vermicompost ii. Separation of earthworm from the compost iii. Packaging of vermicompost iv. Storage of vermicompost 	(2)
	h) Explicate in short about potential of vermicomposting in various agro-industrial wastes	(2)
	i) What are the factors affecting pest control potential of vermicompost?	(2)
	j) Write about the role of earthworms in soil quality improvement.	(2)

SECTION –B (LONG ANSWER TYPE QUESTIONS)

2. Earthworms as indicators of soil quality and health, how? (10)
3. What do you mean by vermicomposting? Elucidate the different methods of vermicomposting. (10)
4. Elucidate any three (10)
 - i. Characteristic of vermicompost
 - ii. Characteristic of vermiwash
 - iii. Benefits of vermicompost
 - iv. Benefits of vermiwash
 - v. Use of vermitechnology in waste management
5. Explain the following (10)

“Biotic and abiotic stress alleviation by earthworms”
6. Discuss about the aims, objectives and scope of the vermitechnology. (10)
7. Discuss about the potential role of earthworms in the reduction of plant disease and pest problems. (10)
8. Discuss about the impact of modern agricultural practices on earthworms (10)
9. What are the soil factors affecting earthworm population? (10)

==END OF PAPER==