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**Gandhi Institute of Engineering and Technology University, Odisha, Gunupur
(GIET University)**



**B. Sc. (Ag.) (Sixth Semester - Regular) Examinations, April – 2026
AG-328 – Principles of Organic Farming**

Time: 2 hrs

Maximum: 50 Marks

The figures in the right hand margin indicate marks.

PART – A

Q.1. Fill in the blanks with suitable word / figure.

(0.5 x 10 = 5 Marks)

- Father of “Organic farming” is.....
- Nutrient composition of FYM
- is an N fixer used in legume crops
- Zygrogramma bicolorata* is used as a bioagent for
- are live microbial preparations meant for use in agriculture for growth promotion and nutrient mobilization of P
- Devine is used for
- VAM stands for
- Aquatic fish useful for weed biocontrol agent.....
- Plant and animal wastes that are used as sources of plant nutrients which release nutrients after decomposition are called
- Farming type where entire production is used for family consumption is known as

Q. 2. Define (or) Explain the following in one or two sentences.

(1 x 5 = 5 Marks)

- Green manuring
- Azolla
- IPM
- PGS
- Certified organic

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A

Column – B

- | | |
|---|--|
| (a) Sugarcane | i. Azolla |
| (b) Symbiotic free-floating fern | ii. African night crawler |
| (c) Collego | iii. Red earthworm |
| (d) Non symbiotic nitrogen biofertilizers | iv. Association with roots of higher plants |
| (e) <i>Eisenia foetida</i> | v. Joint vetch in rice |
| (f) <i>Eudrilus eugenia</i> | vi. Acetobacter |
| (g) Mycorrhiza | vii. Johnson grass |
| (h) Bipolaris | viii. Azospirillum |
| (i) Bangalore method of Composting | ix. Rudolf Steiner |
| (j) Biodynamic Agriculture | x. Dr C N Acharya |

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. Indian organic symbolizes certified organic product
- b. At present 30000 organisms have been reported to cause disease in insects
- c. Concept of organic farming was described in the book 'Look for Land''
- d. Green Revolution occurred in 1970.
- e. NPOP is an international umbrella organization for organic organizations established in 1971
- f. The country is currently in a position to eliminate the use of chemicals especially fertilizer.
- g. Organic farming uses low external inputs.
- h. Desired C:N ratio in FYM is 30:1.
- i. In 1972, IFOAM gave an international framework for discussion and recognition of principles of organic farming
- j. About 40 percent nutrient needs of Indian agriculture can be met by utilizing various organic sources.

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

- 5. Why do we need to go for organic farming?
- 6. What are the issues to be considered for organic farming?
- 7. Explain in detail the operational structure of the National Programme for Organic Production (NPOP) along with a diagram.
- 8. Discuss the various schemes and programs implemented by the Government of India for promoting organic farming.
- 9. What are the Certification steps to be followed under OSOCA?
- 10. Explain the objectives, key components, and achievements of various initiatives and schemes taken up by the Government of India, adopted in Odisha.

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