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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA,
GUNUPUR
(GIET UNIVERSITY)**

B. Sc. (Ag.) (Sixth Semester Regular) Examinations, April – 2025

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)

- a.% of the world's agricultural land is organic in 2023.
- b. The country with the most organic agricultural land
- c. had the highest per-capita consumption in 2023.
- d. India rank in terms of total number of producers as per 2023 .
- e. Father of "Organic farming" is.....
- f. Nutrient composition of FYM
- g. PSB stands for
- h. NSKE
- i. is an example of egg parasitoids.
- j. OSOCA is located at

Q. 2. Define the following.

(1 x 5 = 5 Marks)

- a. IPM
- b. IFS
- c. Organic farming
- d. Organic certification
- e. Natural farming

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A

Column – B

- (a) Sugarcane
- (b) Symbiotic free-floating fern
- (c) Collego
- (d) Non symbiotic N fixation
- (e) IFOAM
- (f) NPOP
- (g) Stale seedbed
- (h) Bipolaris
- (i) Light Trap
- (j) Mycorrhiza

- (i) Azolla
- (ii) Weed management
- (iii) International standard
- (iv) Association with roots of higher plants
- (v) Joint vetch in rice
- (vi) Acetobacter
- (vii) Johnson grass
- (viii) Indian standard
- (ix) Azospirillum
- (x) Pest management

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. India produced around 3.9 million MT (2024) of certified organic products
- b. The coinage of the term 'organic farming' is credited to Lord Northbourne
- c. The inherited tradition of organic farming is an added advantage for India
- d. India's rank 2nd in terms of World's Organic Agricultural land
- e. The new NPOP standard has been drafted and will be implemented starting March 2025
- f. The USA, the Netherlands, and Germany were the leading importers, together accounting for nearly 86 percent of all organic imports
- g. 3.1 percent of the world's agricultural land is organic in 2023.
- h. OSOCA has been accredited under NPOP to function as Inspection & Certification body for organic crop production with effect from 01.06.2022.
- i. After the 16th century most foods in the world were organically produced.
- j. Change in the first 20 years of the launch of green revolution, food production increases 4 times.

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

- 5. Explain the four principles of organic farming. Write down about the organic farming status in the world
- 6. Describe the different components of organic farming with examples.
- 7. Explain the policies and schemes adopted in India to promote organic farming
- 8. What is organic certification? Write down the international organic standard set by IFOAM.
- 9. Define NPOP and elaborate on the operational structure of NPOP with a diagram
- 10. Describe Odisha State Seed Certification Agency (OSSCA). Write down the certification steps per Orissa State Organic Certification Agency (OSOCA).

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