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**GIET UNIVERSITY, GUNUPUR – 765022**  
 B. Sc (AG) (Sixth Semester) Examinations, June – 2021  
**AG 3611 - PRINCIPLES OF ORGANIC FARMING**

Time: 2 hrs

Maximum : 50 Marks

**The figures in the right hand margin indicate marks.**

**PART – A**

**Q.1. Write True or False against the following statements. (0.5 x 10 = 5 Marks)**

- a) Agriculture was born as organic.
- b) Release of carbon dioxide is more in organic farming than conventional farming.
- c) Water hyacinth is a conventional green manuring crop.
- d) FYM introduces weed problem.
- e) Organic agricultural practices alone can not solve the problem of food security.
- f) Brown manuring is otherwise known as green leaf manuring.
- g) Organic farming helps in reducing bio-diversity.
- h) Gypsum is an inorganic soil amendment for alkaline soils.
- i) North-eastern states of India are by default organic.
- j) Neem, Pongamia and Mahua are grouped under botanical pesticides.

**Q.2. Fill in the blanks with suitable words/figures :- (0.5 x 10 = 5 Marks)**

- a) Dhaicha is incorporated into soil after \_\_\_\_\_ weeks of growth.
- b) Normal compost takes \_\_\_\_\_ months for its fully preparation.
- c) \_\_\_\_\_ is a legume crop also grown as fodder for cattle in early stages.
- d) \_\_\_\_\_ is a soil amendment.
- e) Rhizobium is used as bio fertiliser in \_\_\_\_\_ crop.
- f) Ash is rich in \_\_\_\_\_.
- g) Government of India declared \_\_\_\_\_ state as organic state.
- h) The bio agent "*Phytophthora palmivora*" is used as bio herbicide called \_\_\_\_\_.
- i) BGA contributes \_\_\_\_\_ nutrient to the soil.
- j) The most commonly and widely used bio-pesticide in insect control operation is \_\_\_\_\_.

**Q.3. Expand the following: (0.5 x 10 = 5 Marks)**

- a) IFOMA:
- b) NSOP:
- c) APEDA:
- d) HEISA:
- e) NPV:

**Q.4. Match the following-****(0.5 x 10 = 5 Marks)**

<b>“A”</b>	<b>“B”</b>
a. Forage crops	i. Green gram
b. Green leaf manure	ii. Soyabean
c. Cover crop	iii. Blood meal
d. Concentrated organic manures	iv. Pillipesara
e. Rudolf steiner	v. Blue babies
f. Eutrofication	vi. Father of modern organic agriculture
g. Codex guidelines on organic standards	vii. Biodynamic agriculture
h. Sir Albert Howard	viii. Bengaluru
i. <i>R.japonicum</i>	ix. <i>Glyricidia</i>
j. Rachel Carson	x. Silent spring effect of pesticides on environment

**PART – B****Answer ANY FIVE Questions****(6 x 5 = 30 Marks)**

5. Define organic farming. Write down the concept and aims of organic farming.
6. Write down the differences between Organic and Natural farming. Mention the principles of Organic farming according to IFOAM.
7. What is the need of certification and product labelling in organic farming. Write down in brief the process of organic certification undertaken by the farmers in addition to normal farming operation.
8. Why no single method of weed control can achieve the desired level of efficiency under all situations? Discuss in brief the major components of integrated weed management system (IWMS).
9. What are the different types of bio-pesticides? Discuss the advantages and disadvantages of bio-pesticides.
10. Discuss briefly the operational structure of NPOP.

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