



COLLEGE OF AGRICULTURE, FISHERIES & FORESTRY

School of Agricultural Sciences

Department of Crop Production

Trade Diploma in Agriculture – Year I

IFS 401: Integrated Farming System

Trimester 1 Final Examination 2017

[Total Marks: 100]

Time Allowed : 3 hours plus 10 minutes reading time

Instructions : This paper consists of 6 pages.

Please check to see that your paper is complete.

Answer ALL questions in the answer booklet. Number your answers correctly in the answer booklet.

Write your student ID number on all the pages that you use including any additional sheet of paper.

Printed or written material is not allowed into the examination hall.

Mark values appear at the end of each question or part thereof.

Non-programmable calculators are permitted.

“MOBILE PHONES ARE STRICTLY NOT ALLOWED”

SECTION	DESCRIPTION AND MARK ALLOCATION
SECTION A	Part 1 - Multiple Choice Questions – 10 Marks
	Part 2 – Matching – 10 Marks
	Part 3 – True or False – 10 Marks
	Part 4 – Fill in the Blanks – 10 Marks
SECTION B	Short Answer Questions – 30 Marks
SECTION C	Long Answer Questions – 30 Marks

Write the most appropriate answer of your choice in the answer booklet

1. Integrated Farming System is:
 - A. An approach of bringing livestock and crops together without any interactions.
 - B. A supplementary integration of crops and livestock
 - C. An approach of bringing the different components to interactive relationships.
 - D. All the Above

2. The component of integrated farming system does not include
 - a) Crop production
 - b) Live stock
 - c) Landscaping
 - d) aquaponics

3. Name the gas that is produced in the bio gas plant which is of the highest concentration
 - a) Carbon-dioxide
 - b) Methane
 - c) Nitrogen
 - d) Hydrogen

4. Which of the following is not the role of livestock in IFS?
 - a) Food source
 - b) Manure source
 - c) Transport
 - d) None of the above

5. One disadvantage of bio gas is
 - a) contain Impurities
 - b) not Attractive on Large Scale
 - c) unstable
 - d) All of the above

6. One major factor impacting the classification of the farming system is:
 - a) Climate
 - b) Level of Technology
 - c) Infrastructure
 - d) All the Above

7. The planting of one crop year after year is termed as.
- Crop Rotation
 - Monocropping
 - Intercropping
 - Mixed Farming
8. Growing two or more crops together in strips wide enough to permit separate crop using machines but close enough for the crops to interact?
- Mixed Cropping
 - Crop Rotation
 - Strip Cropping
 - Relay Cropping
9. One benefit of composted coir pith is
- it improves the soil aggregation
 - it improves the water holding capacity
 - Ammonification and nitrogen fixation are increased
 - All the above
10. The integrated farming system represents a winning combination that
- Increases soil erosion
 - Decreases crop yield, nutrient cycling
 - Decreased profit
 - Increases production

PART 2**MATCHING****[10 Marks]**

Match List A with the corresponding correct answer from List B and write the answer in the answer booklet provided.

#	Section A		Section B
1	Sustainable agriculture	A	Hunters and gatherers
2	Human impact	B	Climate, elevation and moisture
3	Environmental damagers	C	Vegetable crops
4	Conventional farming	D	Pooling and sharing of resources
5	Objectives of IFS	E	Horticulture
6	Components	F	Increase production
7	Advantages of IFS	G	Commercial farming
8	Tillage crop	H	Habitat destruction
9	Factors affecting cropping systems	I	Damage to soil fertility
10	Subsistence agriculture	J	Integrated farming system

PART 3**TRUE OR FALSE****[10 Marks]**

In the Answer booklet provided write "TRUE or FALSE" if the statement is correct and "FALSE" if the statement is incorrect.

Sl.no.	Statements	T or F
1	Poultry is the fastest food growing industry	
2	Integrated farming systems main goal is to decrease the use of chemicals in the farm.	
3	Commercial farming is also known as small scale farming.	
4	Hydrophytes are plants which can grow in wetlands.	
5	Fallow is the practice of allowing crop land to lie idle during a growing season to build up the soil moisture & fertility content.	
6	In integrated farming system, it is always emphasized not to combine cropping with other enterprises or activities	
7	Climate elevation, soil are some of the factors impacting Farming system	
8	Increasing the income and standard of living of small and marginal farmers are the major goals of IFS.	
9	Mono cropping is the planting of only two crops in a piece of land year after year.	
10	Vermicomposting is the breaking down of organic material through the use of worms, bacteria, and fungi.	

PART 4**FILL IN THE BLANKS****[10 Marks]**

Fill in the blanks to complete the following statements. Write your answers in the answer booklet.

1. In integrated farming system the waste product of one component serve as a _____ to the other.
2. Integrated farming or integrated productions is a commonly and broadly used word to explain a more integrated approach to farming as compared to existing_____.
3. _____ has gained importance owing to its properties for use as a growth medium in Horticulture.
4. _____ is the breaking down of organic material through the use of worms, bacteria, and fungi.
5. _____ refers to an ordered combination of crops grown, livestock produced, husbandry methods and cultural practices followed.
6. In the _____, the water is pumped into the fish tank; replacement water can be added in this tank to regulate the depth of water in the system.
7. The end product of vermicomposting is a substance called_____.
8. _____vermiculture is run on a bigger scale than that of the individual family-based vermiculture bin.
9. _____refers to the ability of a farm to produce food indefinitely, without causing irreversible damage to ecosystem health.
10. _____is an edible fungi great diversity in shape size and colour.

SECTION B**SHORT ANSWER QUESTIONS****[30 Marks]****[Each question is worth 3 marks. All are compulsory.]**

1. What is integrated farming system? **(3 Marks)**
2. List 6 components of Integrated farming system? **(3 Marks)**
3. Differentiate between Sericulture and Moriculture, discuss their relationship. **(3 Marks)**
4. Differentiate between organic farming system and sustainable agriculture **(3 Marks)**
5. What are the advantages of fish, poultry and crop integration? **(3 Marks)**
6. Briefly discuss 3 factors influencing the type of farming system? **(3 Marks)**
7. List and explain the disadvantage of integrated farming system **(3 Marks)**
8. Briefly describe agro-silvo-pastoral farming system. **(3 Marks)**
9. Briefly explain the phases of composting. **(3 Marks)**
10. Differentiate between hydroponics and aquaponics. **(3 Marks)**

Section C**Long answer questions****[30 marks]****This section consists of two long answer questions. Both are compulsory questions.**

1. What is bio gas. Elaborate on how a bio digester works. (15)
2. Discuss vermicomposting under following heads. (15)
 - a) Definition and difference between fertilizer and vermicompost
 - b) Types of worms used
 - c) Method of composting
 - d) Method of application
 - e) Advantages of application

The End

