

Faculty of Agriculture

End Semester Examination May 2025

AG3CO31 Farming system & sustainable Agriculture

Programme	:	B. Sc. (Hons.)	Branch/Specialisation	:	AG
Duration	:	3 hours	Maximum Marks	:	50

Note: All questions are compulsory. Internal choices, if any, are indicated. Assume suitable data if necessary.

Notations and symbols have their usual meaning.

Section 1 (Answer all question(s))

Q1. Diversified farming system is also known as:

Marks CO BL
1 1 1

Rubric	Marks
Integrated farming ,	1

- Organic farming
- Integrated farming
- Specialized farming
- None of these

Q2. Main objective of farming system is _____ .

1 1 2

Rubric	Marks
Maximum productivity.	1

- Maximum productivity
- Soil health maintenance
- Maximum input use
- All of these

Q3. The yearly sequence and spatial arrangement of crops and fallow on a given area is called _____ .

1 2 2

Rubric	Marks
Cropping pattern	1

- Cropping system
- Crop rotation
- Cropping pattern
- None of these

Q4. Growing two or more crops on the same field in a year is called _____ .

1 2 2

Rubric	Marks
Multiple cropping	1

- Mixed cropping
- Monocropping
- Multiple cropping
- None of these

Q5. The full form of HEIA is _____ .

1 3 1

Rubric	Marks
High External Input Agriculture	1

- High External Input Agriculture
- Highest Extreme Input Agriculture
- High Extreme Input Agriculture
- None of these

Q6. Which one of the following is not an element of sustainable agriculture?

1 3 2

Rubric	Marks
Use of pesticides in farming	1

- Crop rotation Agro-forestry
 Pisciculture Use of pesticides in farming

Q7. Which one of the following objectives favors Benefit-Cost ratio?

1 4 2

Rubric	Marks
Profitability	1

- High Input use efficiency Cash flow round the year
 Profitability Productivity

Q8. Cropping system which involves raising of crops, animals and / or trees is called _____ .

1 4 2

Rubric	Marks
Mixed farming	1

- Mixed farming Intercropping
 Multiple cropping All of these

Q9. Integrated farming system improves _____.

1 5 2

Rubric	Marks
All of these	1

- Farm income Family labour employment
 Nutritional security of family All of these

Q10. Cropping intensity in India is _____ ..

1 5 2

Rubric	Marks
141%	1

- 120 % 100%
 141% 200%

Section 2 (Answer all question(s))

Marks CO BL

Q11. What is farming system?

2 1 2

Rubric	Marks
Meaning of Farming System.	2

Q12. (a) Write the scope and importance of farming system.

6 1 2

Rubric	Marks
the scope of farming system.	3
the importance of farming system.	3

(OR)

(b) Describe the factors affecting the types of farming.

Rubric	Marks
Each factor affecting the types of farming carries -1- mark .	6

Section 3 (Answer any 2 question(s))

Q13. Write definitions of cropping pattern and cropping system.

Marks CO BL
4 2 2

Rubric	Marks
Definition of cropping pattern .	2
Definition of Cropping System.	2

Q14. Explain with examples multiple cropping system.

4 2 2

Rubric	Marks
multiple cropping systems with examples.	4

Q15. Write about important evaluation tools used in cropping and farming systems.

4 2 2

Rubric	Marks
tools in cropping and farming system	4

Section 4 (Answer all question(s))

Q16. What is HEIA?

Marks CO BL
2 3 2

Rubric	Marks
Definition and full form of HEIA.	2

Q17. (a) Explain conservation agriculture strategies.

6 3 2

Rubric	Marks
Conservation agriculture strategies in agriculture.	6

(OR)

(b) Write the impact of sustainable agriculture on agriculture.

Rubric	Marks
the impact of Sustainable Agriculture on agriculture.	6

Section 5 (Answer all question(s))

Q18. Define integrated farming system.

Marks CO BL
1 4 1

Rubric	Marks
Definition of Integrated farming system.	1

Q19. Write principles of conservation agriculture.

2 4 2

Rubric	Marks
principles of conservation agriculture.	2

Q20. (a) Discuss IFS models suitable for different agro-climatic zones of Madhya Pradesh.

5 4 2

Rubric	Marks
the IFS model for different agro-climatic zones of Madhya Pradesh.	5

(OR)

(b) Write about different components of Integrated farming system.

Rubric	Marks
components of Integrated farming system.	5

Section 6 (Answer any 2 question(s))

Marks CO BL

Q21. Explain resource use efficiency and optimization techniques in agriculture.

4 5 2

Rubric	Marks
Resource use efficiency and optimization techniques in agriculture.	4

Q22. Describe resource cycling and flow of energy in different farming systems.

4 5 2

Rubric	Marks
Resource cycling and flow of energy in different farming systems	4

Q23. Write the characteristics of good integrated farming system model.

4 5 2

Rubric	Marks
the characteristics of good integrated farming system model.	4
