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## **BRAINWARE UNIVERSITY**

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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

Term End Examination 2024-2025
Programme – B.Sc.(Ag)-Hons-2021/B.Sc.(Ag)-Hons-2023
Course Name – Farming System & Sustainable Agriculture
Course Code - CC-BAG402
( Semester IV )

Full Marks: 50		Time : 2:0 Hours
[The figure in the margin ind	licates full marks. Candidates are requir	ed to give their answers in their
	own words as far as practicable.]	
•	Group-A	
	(Multiple Choice Type Question)	1 x 20=20
1. Choose the correct alterno	ative from the following :	Market and the second of the second
		30
<ul><li>(i) Show the correct option income is called as</li></ul>	n: Farm in which no enterprise is contrib farming	outing to 50% or more
a) Specialized	b) Diversified	
c) mixed	d) commerciali	
(ii) Show the correct option	n: Combination of crop with rearing of li	vestock where more
than 10% of its gross inc	come must be from livestock activity is o	called as farming
a) Specialized	b) Diversified	
c) mixed	d) commerciali	
(iii) Show the correct option	n: Sustainable agriculture is derives fron	n word
a) Greek	b) Latin	Designation of
c) Italic	d) none of the	
(iv) Show the correct option rooting pattern and dura	n: The practice of growing different cropation is called as	os of varying height,
a) multi-storied cropping		
c) Both of these	d) None of the	
(v) Show the correct option	n: Energy output (MJ/ ha) / energy inpu	t (MJ/ ha) is called as
a) Energy efficiency	b) Energy prod	uctivity
c) Energy intensity	d) Net energy	
(vi) Show the correct option crop in evapotranspirati	n: Ratio between marketable crop yield ion.	and water used by the
a) Crop WUE	b) WUE	
c) Fertilser use efficiency	d) none of the	
(vii) Show the correct option	n: Which is a renewable source of energ	gy?
a) Wind power.	b) Petrolium.	
c) Forest.	d) All of the ab	ove.

## Library Brainware University 398, Ramkrishnapur Road, Barasal Kolkata West Pengal-700125 tion: Yearly seguence and spat

and fallow on a given area is called	spatial arrangement of crops of crops
a) Cropping pattern c) cropping system	b) crop rotation d) None of these
(ix) Show the correct option: Which is the basic rec	•
<ul> <li>a) Peak nutrient demand of main and intercrops should not coincides</li> </ul>	b) Must be complementary
<ul> <li>c) Maturity period must have atleast 30 days interval</li> </ul>	d) All of these
<ul><li>(x) Show the correct option: The rainfall/irrigation the possible cropping system is</li></ul>	facility is limited to only 6-8 months,
<ul><li>a) Upland crop-Rice-Upland crop</li><li>c) Rice-Upland crop-Rice</li><li>(xi) Show the correct option: Under irrigated uplan</li></ul>	b) Rice-Rice-Upland crops d) All of these d condition, where the winter is mild.
the cropping systems followed is	a condition, where the winter is a way
a) Rice-Upland crops c) None of these	b) Upland crops-Rice d) Both a and b
(xii) Show the correct option: Which is the alternate command and well irrigated areas of South Ind	
a) Sunflower c) Wheat	b) Groundnut
(xiii) Show the correct option: Predominant wheat be central India is	d) Sugarcane pased cropping system in western and
a) Pigeon pea- Wheat c) Soybean-wheat	b) Pearl millet- Wheat d) All of these
(xiv) Show the correct option: Intercopping will increof%	
a) 10-20	b) 20-30
c) 30-40 (xv) Show the correct option: Growing legumes is a	d) >50
a) Fis atmospheric N	b) Extract insoluble soil P
c) Absorb more divalent cations (Ca2+, Mg2+)	d) All of these
(xvi) Show the correct option: What is the objective	of proposing indices in cropping system
<ul><li>a) Assessing benefit of intercropping system</li><li>c) Both a and b</li></ul>	b) Relative performance of intercrops d) None of these
(xvii) Show the correct option: Judicious mix of one of called	or more enterprises with cropping is
a) Cropping system c) Both a and b	b) Farming system d) None of these
(xviii) Show the correct option: which of the following increasing profit and utilization resources effective.	g can be combined with fish for
a) Duck	b) Pig
c) Poultry (xix) Show the correct option: Activity area of farming	d) All of these
a) Database analysis	b) On station research
<ul> <li>c) On-farn research</li> <li>(xx) Show the correct option: Which is the most imfarming</li> </ul>	d) All of these portant characteristic of sustainable
a) Ecological harmony	b) Use of chemical fertilizers
c) Balanced input	d) All of these

Group-B

(Short Answer	Type Questions)	Brainware University 398, Ramkrishnapur Road, Barasat Kolkata, West Bengal-700125 2.5 x 10=25
2. Explain Crop equivalent Yield.		(2.5)
3. Exaplain Fertilizer use efficiency.		(2.5)
4. Explain the term Sustainable Agriculture.		(2.5)
5. Explain the Disadvantages of Sustainable Agricu	ılture	(2.5)
6. Discuss about carbonsequestration.	arture.	(2.5)
7. Simplify the term carbon foot print.		(2.5)
8. Explain Conventational Agriculture.		(2.5)
9. Explain the term Farming system.		(2.5)
10. Explain the term sole cropping.		(2.5)
11. Explain the term Shifting cultivation.		(2.5)
	OR	(===)
Explain the term Land Equivalent Ratio.		(2.5)
Gro	oup-C	
(Long Answer	Type Questions)	5 x 1=5
12. Categorize the benefits of Crop rotation.		(5)
· · · · · · · · · · · · · · · · · · ·	OR	
Categorize the limitations of Conservation Agriculture.		(5)