Seat No:_____

Enrollment No:_____

PARUL UNIVERSITY

COLLEGE OF AGRICULTURE B.Sc.(Hons.)Agriculture Summer 2018 - 19 Examination

	B.Sc.(Hons.) Agriculture Su	ımmer 2018 - 19 Exan	nination		
Semester: 4	Date: 09/04/2019				
Subject Code: 2010125	53		Time: 10:30am To 01:00pm		
Subject Name: Farmin	ng System & Sustainable Ag	riculture	Total Marks: 50		
Instructions					
1. All questions are com	ipulsory.				
2. Figures to the right in	idicate full marks.				
3. Make suitable assumption	ptions wherever necessary.				
4. Start new question on	new page.				
Q.1 Do as Directed.					
	s. (Each of 0.5 marks)			(05)	
	. Every reservoir is provided with certain storage capacity to accommodate for the natural				
sedimentation	sedimentation rate, which capacity is called its				
2. EC of saline	soil is				
	n of ground water depth const				
	oncept of sustainable Agricult		nrough		
	&	··			
	fertilizers should be applying	in dose to	improve fertilizer use		
efficiency.	1 10 111				
	andard for drinking water is _				
	of nitrate-N can lead to		_disease particularly in		
infants (< 6 r	nonths old).	1			
8. Uzone layer	is present in	layer of atmosph	ere.		
	cm serves many func		for rooting, supply of		
10 Salina soil is	ts, storage and release of soil	moisture.			
	also known as			(10)	
B. Multiple choice type questions. (Each of 0.5 mark) 1 is/are irrigation related problem/s.					
A. Siltation		C. Eutrophication			
	nization & alkalization				
	is/are element/s of sustain				
A. Soil con		C. A & B both			
B. Soil degra		D. None of the abov	e		
	s also known as		•		
		C. Solanchalk			
B. Solonetz		D. A & B both			
	is/are off-farm resource/s				
A. Pesticide		C. FYM			
B. Manure		D. All of the above			
5. ESP of salin	ne soil is				
A. < 15		C. Both of these			
B. > 15		D. None of these			
6	6 treatment/s is/are include under IPM.				
A. Biologica		C. Cultural			
B. Chemical		D. All of the above			
7. Gypsum is u	use to reclaim	soil.			
A. Alkali so	il il	C. Acidic soil			
B. Saline soil	l	D. A & B both			

8. Hard CaCo3 kankar pan in the sub-soil is	present in soil
A. Alkali soil	C. Acidic soil
B. Saline soil	D. A & B both
9 is/are on-farm resource/s.	
A. Bio-pesticide	C. Manures
B. FYM	D. All of the above
10. pH of alkali soil is	
A. > 7.2	C. > 8.2
$B_{.} > 10$	D. None of the above
11. Growing of two or more dissimilar crops	simultaneously on the same piece of land, base
crop is in distinct row arrangement is kno	
A. Mix cropping	C. Sequential cropping
B. Intercropping	D. All of the above
12. Growing of succeeding crop before the ha	
A Delay gropping	C. Staggered electing
A. Relay cropping	C. Staggered planting
B. Ratoon cropping	D. A & B both
	nent of crop or crops and fallow on a given area
or region is known as	~
A. Cropping pattern	C. Farming system
B. Cropping sequence	D. None of the above
14 is/are component/s of or	rganic farming.
A. Diverse crop rotstion	
B. weed control	D. All of the above
15. Bio fertilizer such as rhizobium culture is crops.	an effective source of N supply to
A. Cereal crops	C. Both of these
B. Leguminous crops	D. None of these
16. Azotobacter and Azospirillium help in Ni	
crops.	
A. Cereal crops	C. Both of these
B. Leguminous crops	D. None of these
17. Sesbania rostrata (dheincha) can fix	kg nitrogen per hacter.
A. 100-250	<u>C. 300-400</u>
B. 50-100	D. 400-500
18. Ozon layer is present at h	
A. 10-15 km	C. 55-65 km
B. 35-55 km	D. 15-35 km
 Methane production from rice field is slov A. Alkaline soil 	
	C. Acidic soil
B. Calcareous soil	D. Saline soil
20. Which condition/s favouring methane pro	
A. Anaerobic conditions in wetland soils	
B. Use of organic amendments	D. All of the above
Do as Directed.	
. Define the following. (Any five)	
1. Relay cropping	
2. Ratoon cropping	
3. Organic farming	
4. Waterlogging	
5. Siltation	
6. Sustainable Agriculture	
7. Deforestation	

(05)

B	B Answer the following. (Any Five)		
	1.	Differentiate: Row inter-cropping v/s Strip inter-cropping	
	2.	Differentiate: intercropping v/s mix-cropping	
	3.	Describe bio-fertilizers	
	4.	Differentiate: Salinization v/s Alkalization	
	5.	Reclamation of saline and alkaline soils	
	6.	Differentiate: Mix-cropping v/s Mix-farming	
	7.	Enlist the major factors affecting the ecological balance and sustainability of	
		agricultural resources are:	
Q.3	Wr	ite short notes. (Any five)	(10)
	1.	Principles of farming system	
	2.	How to improve fertilizer use efficiency	
	3.	Potential Effects of Greenhouse effect or Global Warming	
	4.	Principles of organic farming	
	5.	Prevention, control and reclamation measures for water logging condition	
	6.	Make process diagram of soil degradation through different processes	
Q.4	Att	empt any Three/Long Questions/Example	(15)
	1.	Describe eutrophication	
	2.	Enlist the components of organic farming and describe any three components.	
	3.	Describe methane emission from rice field	
	4.	Objectives of farming system	