Seat No:_____

PARUL UNIVERSITY **COLLEGE OF AGRICULTURE B.Sc. (Hons.)Agriculture Winter 2019-20 Examination**

Enrolment No:_____

•	5 ode: 20101301 ame: Farming System and Sustainable Agrie	rulture	Date: 18/11/2019 Time: 10:30am to 01:00pm Total Marks: 60			
Instructio						
1. All questions are compulsory.						
2. Figures to the right indicate full marks.						
	itable assumptions wherever necessary.					
	w question on new page.					
	as Directed.					
•	in the blanks. (Each of 1.00 marks)			(10)		
		ial known as		(10)		
	New alluvial known as, and old alluvial known as Condensation of water vapour present in the air in cool nights results in					
2.	Relative humidity of% is suitable for most of the crop plants.					
л Л	When relative humidity is high there is chance for the infestation of in rice crop.					
	colour light is found to be most favourable for plant growth. Graded bunds are recommended on land having slop%.					
	 Plant tissue contains% moisture. is the attraction of two dissimilar kinds of molecules like attraction of water 					
0.	molecules for the solid surface of soil.	a kinds of molecules in	te attraction of water			
0						
9.	is in calories required to raise the temperature of one gram of substance to one					
10	degree C.	:-1- (: -: (f				
	Soils with low pH are injurious to plants due h		•	(10)		
	ltiple choice type questions. (Each of 1.00 m			(10)		
1.	Soil with low pH is injurious to plant due to to	•				
	a) Fe	c) Mo				
•	b) B	d) N				
	The practice of growing crops across the slope					
	a) Contour farming	c) Mix cropping				
	b) Strip cropping	d) Intercropping				
3.	Low level of O_2 and High level of CO_2 is four					
	a) Arid	c) Saline				
	b) Alkaline	d) Waterlogged				
4.	is an important tree suitable for coa					
	a)Casuarina	c) Sapota				
-	b) Khijari	d) Neem				
5.	The fruit crop is suitable in salt affected soil.	X A 1 1				
	a) Ber	c) Almond				
	b) Lemon	d) Sapota				
6.	Evaporation increase with increase in					
	a) RH	c) Dew				
_	b) Wind Velocity	d) Rainfall				
7.	Rice + Fish + Azolla is an example of					
	a) Wetland IFS	c) Gardenland IFS				
0	b) Dryland IFS	d) Irrigated IFS				
8.	Gujarat has km coastal line.					
	a) 1600	c) 8000				
	b) 6500	d) 6000				
9.	6	_million ha.				
	a) 9.86	c) 5.74				
	b) 2.33	d) 4.36				
10.	Pyric factors means					
	a) Fire factors	c) Physiographic factor	ors			
	b) Soil factors d) Aerial factors					
11.	Crop + Agroforestry + goat + farm pond is an					
	a) Wetland IFS	c) Garden land IFS				
	b) Dryland IFS	d) Irrigated IFS				

	12.	Which practices reduce the external input usage a) LEISA	on the farm? c)DRIS			
		b) HEISA	d) FIRBS			
	13.	Cropping intensity means				
		a) % ratio of gross cropped area to net cropped	c) % ratio of number of crops in rotation to			
		area	period of one rotation			
		b) % ratio of net cropped area to gross cropped	d) None			
		area				
	14.	The basic principle of taking crop rotation is				
		a)To maintain the fertility status of soil	c)To keep the weeds under control			
		b)To take higher returns per unit area of the soil	d)To take higher crop yield			
	15.	The addition of lime :				
		a) Reduces soil acidicity	c) Increases porosity of soil			
		b) Causes decomposition of organic material	d) Will change soil texture			
	16.	6. include all forms of falling rom atmosphere.				
		a) Evaporation	c)transpiration			
		b) Precipitation	d) vapour			
	17.	is an example of Crop rotation	1.			
			c) Maize + Greengram - Chickpea			
		· ·	d) All of the above			
	18.	The most important green manure crop for salt a	uffected soil is			
		a) Dhaincha	c)Sunhemp			
		b) Clusterbean	d) Green gram			
	19.	BGA fix atmospheric nitrogen in field				
		a) Wheat	c)Jute			
		b) Rice	d) Sun hemp			
	20.	is mechanical approach to weed co				
		a) Moving	c)Smother crop			
•	Б	b) Allelopathic plant	d) Crop rotation			
Q.2		as Directed.				
		Define following (Any Five).	5 Dec la d	(5)		
			5. Dry land			
		6 6	6. Soil conservation			
	3. 4.	Mix cropping Soil reaction				
		Soil reaction Answer the following (Any Five)		(5)		
	1	 Answer the following. (Any Five) Enlist mechanical methods of soil conservations. 				
	1. 2.	What is waste land?				
		What is marshy land?				
		Enlist types of batch terracing.				
		HEISA stand for:				
		Classify salt affected soil.				
0.3		ite short notes. (Any five)		(15)		
		Differentiate Organic farming vs. natural farmin	ıg.			
	2.	Why sustainable farming system?				
	3.	Give scope of farming system.				
	4.	Enlist the characters of dry land ecosystem.				
	5.	How we can conserve energy resources?				
	6.	Write classification of waste land given by NW	DB.			
Q.4		empt any Three/Long Questions/Example		(15)		
	1.	Give key principle of organic farming.				
	2.	Explain effect of high and low temperature on growth of plants.				
	3.	Write short note on reclamation of salt affected	soil.			
	4.	Describe basic concept of LEISA.				