## PARUL UNIVERSITY COLLEGE OF AGRICULTURE

Enrolment No:\_\_\_\_\_

B.Sc. (Hons.)Agriculture Winter 2018-19 Examination

Semester: Subject Co Subject Na	5 ode: 20101301 ame: Farming System and Sustainable Ag	riculture	Date: 23/10/2018 Time: 2:00pm to 4:30pm Total Marks: 60			
Instruction	ns					
1. All ques	tions are compulsory.					
2 Figures	to the right indicate full marks					
3 Make su	itable assumptions wherever necessary					
4 Start nev	w question on new page					
T. Start nev	v question on new page.					
Q.1 Do	as Directed.					
A. Fill	in the blanks. (Each of 1.00 marks)			(10)		
1.	New alluvial known as , and old allu	uvial known as .		. ,		
2.	Condensation of water vapour present in the air in cool nights results in .					
3.	Relative humidity of % is suitable for most of the crop plants.					
4.	When relative humidity is high there is chance for the infestation of in rice crop.					
5.	colour light is found to be most favourable for plant growth.					
6.	Graded bunds are recommended on land having slop %					
7.	Plant tissue contains % moisture					
8.	is the attraction of two dissin	nilar kinds of molecules lik	e attraction of water			
	molecules for the solid surface of soil.					
9	is in calories required to raise the temperature of one gram of substance to one					
2.	degree C	use the temperature of one	grain of substance to one			
10	Soils with low pH are injurious to plants due	e high toxicity of				
B Mu	Itinle choice type questions (Fach of 1 00	mark)	•	(10)		
D. MIU 1	Soil with low pH is injurious to plant due to	toxicity of		(10)		
1.	a) Fa	c) Mo				
	b) B	d) N				
2	The practice of growing grops across the slo	u) N				
2.	a) Contour forming	a) Mix cropping				
	a) Contour farming b) Strip gropping	d) Intergroupping				
2	Low level of $\Omega$ and High level of $C\Omega$ is for	u) intercropping				
5.	Low level of $O_2$ and high level of $O_2$ is to	a) Salina				
	a) Alla	d) Waterlagged				
1	b) Alkalille	d) waterlogged				
4.	Is an important tree suitable for c	a) Sepote				
	a)Casualilla b) Khijori	d) Noom				
5	U) Killjäll The fruit eren is suitchle in selt offected soil	d) Neem				
5.	a) Por	a) Almond				
	a) Del b) Lemon	d) Senate				
(	b) Lemon	d) Sapota				
0.	a) DI	 				
	a) KII b) Wind Valacity	d) Deinfall				
-	b) wind velocity	d) Kamfall				
7.	a) Wetland US					
	a) welland IFS	c) Gardenland IFS				
0	b) Dryland IFS	d) Irrigated IFS				
8.	India has km coastal line.	-) 8000				
	a) 5600	c) 8000				
0	b) 6500	d) 6000				
9.	Shiftingcultivation cover an area of	million ha.				
	a) 9.86	c) 5.74				
10	b) 2.33	d) 4.36				
10.	Pyric factors means					
	a) Fire factors	c) Physiographic facto	ors			
	b) Soil factors	d) Aerial factors				
11.	Crop + Agrotorestry + goat + farm pond is a	an example of				
	a) Wetland IFS	c) Gardenland IFS				
	b) Dryland IFS	d) Irrigated IFS				

	12.	• Which practices reduce the external input usage on the farm?				
		a) LEISA	c)DRIS			
		b) HEISA	d) FIRBS			
	13.	Cropping intensity means				
		a) % ratio of gross cropped area to net	c) % ratio of number of crops in rotation to			
		cropped area	period of one rotation			
		b) % ratio of net cropped area to gross	d) None			
		cropped 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	d)To take higher crop yield			
		soil				
	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.	include all forms of falling rom atmo	osphere.			
		a) Evaporation	c)transpiration			
		b) Precipitation	d) vapour			
	17.	is an example of Crop rotatio	n.			
		a) Rice – Wheat - Moong	c) Maize + Greengram - Chickpea			
		b) Rice – Wheat + Chickpea	d) All of the above			
	18.	The most important green manure crop for salt	affected soil is			
		a) Dhaincha	c)Sunhemp			
		b) Clusterbean	d) Green gram			
	19.	BGA fix atmospheric nitrogen in fiel	d.			
		a) Wheat	c)Jute			
	• •	b) Rice	d) Sun hemp			
	20.	is mechanical approach to weed co	ontrol.			
		a) Moving	c)Smother crop			
~ •	n	b) Allelopathic plant	d) Crop rotation			
Q.2	Do	as Directed.				
	<b>A.</b>	Define following (Any Five).		(5)		
	1.	IFS One only formula				
	2.	Organic farming				
	3. 1	Mix cropping				
	4.	Soll reaction				
	Э. С	Dry land				
	0. D	Soli conservation		(5)		
	<b>D</b> . 1	Enlist machanical matheds of soil concernation	a	(5)		
	1.	Effisit mechanical methods of son conservation What is waste land?	8.			
	2. 2	What is marshy land?				
	ס. ⊿	Enlist types of batch torreging				
	4. 5	Linist types of batch terracing.				
	5. 6	Classify solt offected soil				
03	0. W/r	the short notes (Any five)		(15)		
Q.J	1	Differentiate Organic farming vs. natural farmi	ηα	(13)		
	2	Why sustainable farming system?				
	2. 3	Give scope of farming system				
	З. 4	Enlist the characters of dry land ecosystem				
	- <del>-</del> . 5	How we can conserve energy resources?				
	5. 6	Write classification of wasta land given by NU				
0.4	U.	while classification of waste land given by IN W		(15)		
Q.4		Cive key principle of organic forming		(15)		
	1. ว	Exploin offset of high and low temperature on growth of plants				
	<i>2</i> .	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.