Seat No:	Enrollment No:
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PARUL UNIVERSITY

FACULTY OF AGRICULTURE

B. Tech FOA Winter 2019-20 Examination

Semester: 3 Date:09 /12/2019

Subject Code:20103202 Time:10.30 am to 12.30 pm

Subject Name: Principle of Agronomy Total Marks:50

Instructions:

- All questions are compulsory.
 Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

Q.1	Do as Directed.			
A.	Fill in the blanks.(Each of 0.5 marks)		05	
1.	refers to the application of fertilizers into the soil close to the seed or plant in order		r	
	to supply the nutrients in adequate amou	nts to the roots of growing plants.		
2.	The tillage operation that is done after the	ne harvest of crop to bring the land under cultivation is known a	.S	
3.	aims at obtaining maxi	mum production at minimum cost by exploiting the knowledg	e	
	of the basic and applied sciences for higher crop production.			
4.	Groundnut, Sesame and Castor are the examples ofcrops.			
5.	Cotton and jute are thecro	ps.		
6.	Hybrid Napier grass and coconut are the examples ofcrops.			
7.	The tillage operation that is done in a land with standing water is called			
8.	is the practice of groone crop season.	owing two or more crops together on the same piece of land i	n	
9.	•	sion on a piece of land		
9. 10.	The growing of different crops in succession on a piece of land			
10.	The tillage operations that are performed on the soil after primary tillage to bring a good soil tilth are known as			
B.	Multiple choice type questions.(Each of 0.5 marks)		10	
(1)	The inter tillage (after cultivation) operations that are carried out in		10	
(1)	(a) At sowing time	(b) In standing crop		
	(c) At transplanting time	(d) None of the above		
(2)	The,crops are grown with transplanting method.			
(2)	(a) Maize, wheat	(b) Rice, Tomato		
	(c) Sesame, sorghum	(d) None of the above		
(3) The most important advantage of conservation tillage system is significantly		• •	0	
(3)	wind and water.	s on those and the		
	(a) More	(b) Less		
	(c) No effect	(d) None of the above		
(4)	The main disadvantage of broadcasting sowing method is			
	(a) Low seed rate	(b) Seeds can be put in desired depth		
	(c) More seed rate is required.	(d) It is economical		

(5)	The following crops are pulses.			
	(a) Rice, Wheat	(b) Green gram, Cowpea		
	(c) Sorghum, Pearl millet	(d) None of the above		
(6)	Tillage is referred asmanipulation of soil.			
	(a) Physical	(b) Biological		
	(c) Chemical	(d) All of the above		
(7)	Soil moisture held against the gravitational force is known as			
	(a) Maximum water holding capacity	(b) Field capacity		
	(c) Permanent wilting point	(d) Ultimate wilting point		
(8)	Complete removal of all live plant parts and seeds of weed from an area is known as			
	(a) Prevention	(b) Eradication		
	(c) Weed control	(d) Weed management		
(9)	The following crop is annual crop.			
	(a) Sugar beet	(b) Wheat		
	(c) Coconut	(d) Hybrid Napier		
(10)	The following crop is medicinal crop.	•		
	(a) Sugar beet	(b) Isabgul		
	(c) Coconut	(d) Hybrid Napier		
(11)	The following crop is biennial.			
` '	(a) Beet root	(b) Coconut		
	(c) Wheat	(d) Hybrid Napier		
(12)	Till planting is one method of practicing			
	(a) Zero tillage	(b) Primary tillage		
	(c) Secondary tillage	(d) None of the above		
(13)	Puddling is carried out incrop.			
	(a) Wheat	(b) Paddy		
	(c) Pearl millet	(d) Cotton		
(14)	practiced use for the application of fertilizers in orchards.			
	(a) Hill placement	(b) Row placement		
	(c) Band placement	(d) None of the above		
(15)	avoids or largely excludes the use of synthetic fertilizers, pesticides, growth regulators and			
	livestock feed additives.			
	(a) Organic farming	(b) Mixed farming		
	(c) Conventional farming	(d) None of the above		
(16)	farming systems that a	re "capable of maintaining their productivity and usefulness to		
	society indefinitely and must be resource	ce-conserving, socially supportive, commercially competitive,		
	and environmentally sound."			
	(a) Sustainable	(b) Rotational		
	(c) Conventional	(d) Mixed		
(17)				
()	Photoperiod does not have much influence	ee for phasic change in following day neutral plants.		
	(a) Sunflower	(b) Sorghum		
	(c) Oats	(d) Maize		

(18)	Monocropping is when the field is used to grow only crop season after season.		
	(a) One	(b) Three	
	(c) Two	(d) All of these	
(19)	cropping the process	of growing one crop, then planting another crop (usually a cover crop)	
	in the same field before harvesting	g the first.	
	(a) Mono	(b) Relay	
	(c) Inter	(d) Mixed	
(20)	water use by the plant	growth.	
	(a) Capillary	(b) Gravitational	
	(c) Hygroscopic	(d) All of these	
Q.2	Do as directed.		
A.	Define the following.(Any five or	ut of seven)	05
(1)	Organic farming		
(2)	Agronomy		
(3)	Cohesion		
(4)	Perennial crops		
(5)	Integrated nutrient management		
(6)	Capillary water		
(7)	Long day plants		
В.	Answer the following.		05
1.	Explain role of agronomist		
2.	What is the scope of organic farm	ning?	
3.	Explain oil seeds crops.		
4.	What is the zero tillage (no tillage))? What is the purpose of it?	
5.	Write down the disadvantages of o	organic farming	
Q.3	Write short notes. (Any five out	of six)	10
(1)	Classify the types used in crops an	nd write down details of any two.	
(2)	Write down the name of crop se grown in each season?	asons in India along with sowing period. What are the crops to be	
(3)	Write down the advantages and dis	sadvantages of sustainable agriculture.	
(4)	What are the principles of weed management? Give the name of Physical/mechanical weed control?		
(5)	What is primary tillage and second	dary tillage?	
(6)	What is wet tillage or puddling?		
Q.4	Long Question/Example (Attem)	pt any three out of four)	15
1.		the plants depending on the length of photoperiod required for floral	
	initiation and details along with ex	•	
2.		hat are the main objectives of tillage?	
3.	_	Write down the details of three sowing methods along with examples.	
4.	What is the principle of tillage? W	hat are the main objectives of tillage?	