Seat No: \_\_\_\_\_ Enrollment No:

## PARUL UNIVERSITY

**COLLEGE OF AGRICULTURE** B.Sc.(Hons.) Agriculture Summer 2017 - 18 Examination Semester: 1 Date: 08/06/2018 **Subject Code: 20101103** Time: 2: 00 pm to 4.30 pm **Subject Name: Fundamentals of Agronomy Total Marks: 60 Instructions** 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Make suitable assumptions wherever necessary. 4. Start new question on new page. O.1 Do as Directed. A. Fill in the blanks. (Each of 1.00 marks) (10)3. Chemical formula of Gypsum is 4. destroys soil structure which is necessary for transplanting of rice seedlings. 5. The water content between field capacity and PWP is called\_\_\_\_\_ 6. Sodic soil contains high amount of \_\_\_\_\_. 7. Production of beijerinckia is high in \_\_\_\_\_\_ soil. 8. Drip irrigation is most suitable for \_\_\_\_\_ soil 9. The integration of crop and livestock production on the farm is-\_\_\_\_\_ 10. Most widely used irrigation source in India is \_\_\_\_\_ B. Multiple choice type questions. (Each of 1.00 mark) (10)1. Which country has the highest area under irrigation? a) India c) Pakistan d) China b) USA 2. Generally, in loam soil the value of field capacity is a) > MEc) None b < MEd) = ME3 Saturated flows in different texture soils follow the order of \_\_\_\_\_ a) Silt < Sand < Clay c) Sand <Silt <Clay b) Sand>silt>Clay d) Sand>Loam >Clay 4 WR is equal to a) IR - ER - Sc) IR - ER + Sb) IR + ER - Sd) IR + ER + S5 The method of irrigation where water is allowed to run over the soil surface and allowed to infiltrate is called as \_\_\_\_\_. a) Drip irrigation c) Check basin b) Sprinkler irrigation d) Surface irrigation 6 Water use efficiency is higher in \_\_\_\_\_ a) CAM plants c) C<sub>4</sub> plants d) All above b) C<sub>3</sub> plants 7 Water having RSC \_\_\_\_\_\_ meq/lit is not suitable for irrigation. a) 1.25 to 2.50 c) More than 2.50 d) Both A &B b) Less than 1.25 8 \_\_\_\_\_ stage is most critical stage for soil moisture in wheat crop. a) Tillering c) CRI

b) Milking

b) Native

a) Facultative weed

a) Facultative weed

b) Native weed

d) Jointing

c) Alien weed

c) Mimicry

d) Noxious weed

9 Many weeds in India originated in some other part of the world is called

10 Some weeds survive because of their similarity in morphology with the host crop is called

<b>Q.2</b>	Do	as Directed.	
A	. De	fine the following. (Any five)	(05)
	1.	Agronomy	
	2.	Weed	
	3.	Manure	
	4.	Fertilizer	
		Water use efficiency	
		Water requirement	
	7.	Crop density	
В		swer the following. (Any Five)	(05)
		Objectives of tillage.	
		Define Irrigation requirement. Types of Irrigation requirement	
		Enlist the Factor affecting Cu or ET or water requirement	
		Enlist the Theoretical approaches of irrigation scheduling	
		Give the advantages and disadvantages of sprinkler method	
		Advantages of Bulky organic manures	
0.1		Advantages of irrigation scheduling	( <b>4.5</b> )
Q.3	Write short notes. (Any five)		(15)
		Role of Agronomist	
		Differentiate: Net irrigation requirement and Gross irrigation requirement	
		Differentiate: Monocot and Dicot	
		Enlist the Criteria to determine the quality of irrigation water and describe any two in detail.	
		Differentiate: Drip system and Sprinkler System	
		Differentiate: Root parasite and Stem parasite	
<b>Q.4</b>	Attempt any Three/Long Questions/Example		(15)
		Physical classification of soil moisture	
		Give the classification of potassic fertilizers with examples	
		Enlist the factor affecting Water use efficiency and Give the detail information about the	
	_	onomic factor	
	4. I	Briefly write about crop geometry	
	4. I	Briefly write about crop geometry	