Seat No:_____

PARUL UNIVERSITY

Enrollment No:____

COLLEGE OF AGRICULTURE

B.Sc.(Hons.) Agriculture Winter 2019 - 20 Examination

Semester: 4 Subject Code: 20103251 Subject Name: Manures, Fertilizers and Agrochemical	Date: 06/12/2019 Time: 2:00 pm to S Total Marks: 60	4:30 pm
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.		
Q.1 Do as Directed. A. Fill in the blanks. (Each of 1.00 marks)		(10)
	and	(10)
1. Liming reduces the availability of,	, allu	
 Acaricides is use to kill and Low analysis fertilizers having less than 		
 Chemical formula of the Gypsum is 		
5. India passed The Fertilizer Control Order [FC		
6. Azola symbiotically can fix kg		
7. Boron availability is more in kg	textured soil.	
8. Neem seed contains% azadi	rachtin.	
9. Write the full form of HCCP		
 9. Write the full form of HCCP 10. Low Si/Mg ratio leads to fixation of 	nutrient in soil.	
B. Multiple choice type questions. (Each of 1.00 m		(10)
1. The percent of K ₂ O in KCL is	,	
a) 48	c) 80	
b) 58	d) 127	
2. Which oil cake is not used as feeding for the	livestock?	
a) Castor cake	c) coconut cake	
b) Groundnut cake	d) All of the above	
3. Which fertilizer improving burning quality of	of tobacco?	
a) Nitrogenous	c) Potassic	
b) phosphatic	d) None of the above	
4. Write the full form of 2, 4-D	-,	
a) 2, 6 – Dichlorophenoxy acetic acid	c) 2, 4 – Dichloroethyl acetic acid	
b) 2, $4 -$ Dichlorophenoxy acetic acid	d) 2, $4 - \text{Dichloroethyl acetic acid}$	
5. Glyphosate is a herbicide		
a) Pre emergence	c) Both a & b	
b) Post emergence	d) None	
6. Poultry manure is	2) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
a) Bulky organic manure	c) Both a & b	
b) Concentrated organic manure	d) None	
7. Biogas contained% of Nitrogen.	d) None	
a) 1.5	c) 0.5	
b) 2.5	d) 15	
8 fertilizer contains two or three	,	
a) Straight	c) Mixed	
b) Complex	d) None	
9. Write the full form of NTA	d) None	
	Nitrovy Tri A satia A sid	
a) Nitrilo Tri Acetic Acid	c) Nitroxy Tri Acetic Acid	
b) Nitrilo Tetra Acetic Acid	d) Nitroxy Tetra Acetic Acid	
10 is used to remove moisture fro	±	
a) Desiccants	c) Fumigants	
b) Defoliants	d) Amendments	
Q.2 Do as Directed.		() = `
A. Define the following. (Any five)		(05)
	r) 1 -f 7

1. Straight fertilizers 2. Green manure 3. Selectivity of herbicides 4. Chelates 5. Agricultural chemicals 6. Zococides 7. Botanical insecticides **B.** Answer the following. (Any Five) (05) 1. Write about Glyphosate 2. Enlist the types of Bio-fertilizers 3. Enlist the methods of manufacturing process for Ammonium Sulphate 4. Write the sources of following fertilizers 2. Magnesium 1. Calcium 5. Why we should not use phenoxy butyric acid herbicides in leguminous plants? 6. Give full form of following abbreviation 1. EDDHA 2. DTPA 7. Classify sulphur and copper containing fungicides with example. **O.3** Write short notes. (Any five) (15) 1. Define the manures and classify the manures with examples. 2. Advantages of biogas plant 3. Classified the nitrogenous fertilizers based on the chemical form of nitrogen with their examples. 4. Objectives of quality control of fertilizers 5. Classification of micronutrient fertilizers 6. Write down the regulations of Fertilizer Control Order [FCO] Q.4 Attempt any Three/Long Questions/Example (15)1. Why the need of micronutrient fertilization has been increase? Give detailed answer. 2. Classification of agricultural chemicals based on the purpose with proper example 3. Benefits of bio- fertilizers 4. Describe the classification of phosphatic fertilizers based on their availability to crops and solubility.