Total No. of Questions: 6

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Enrollment	No	
	11U	



Q.1

Faculty of Agriculture

End Sem (Odd) Examination Dec-2019

AG3CO05 Fundamentals of Agronomy

Programme: B.Sc. (Ag.) Branch/Specialisation: Agriculture

Duration: 3 Hrs. Maximum Marks: 50

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

i.	Agronomy word derived from-		1
	(a) Latin word	(b) English word	
	(c) Greek word	(d) French word	
ii.	Which seed is called mothe	r seed?	1
	(a) Breeder seed	(b) Foundation seed	
	(c) Registered seed	(d) Certified seed	
iii.	Which crop has maximum	water requirement?	1
	(a) Sugarcane (b) Wheat	(c) Cotton (d) Barley	
iv.	iv. Which method of irrigation has maximum water use efficience		
	(a) Sprinkler irrigation	(b) Drip irrigation	
	(c) Check basin irrigation	(d) All of these	
v.	Which is non selective herb	ricide?	1
	(a) Glyphosate	(b) Pendimethaline	
	(c) Fluchloraline	(d) 2-4, D	
vi.	vi. Botanical name of congress grass is		1
	(a) Cynodon dactylon	(b) Parthenium histophorus	
	(c) Eclipta alba	(d) Phalaris minor	
vii.	Plant Ideo-type concept giv	en by-	1
	(a) Peter Decresenji	(b) M. S. Swaminathan	
	(c) M.C. Donald	(d) Jethro Tull	
viii.	Which is C_4 crop?		1
	(a) Soybean (b) Paddy	(c) Maize (d) Wheat	
ix.	Brix reading of sugarcane a	t harvesting time-	1
	(a) 10-12% (b) 12-15%	(c) 15-17% (d) 18-20%	
			P.T.O.

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	х.	P ^H of alkali soil is-	1		
		(a) 4-5.5 (b) 5.5-6.5 (c) 7.5-8.5 (d) 8.5-10			
Q.2	i.	Define Tilth.	1		
	ii.	What is seed? And write the name of seed according to international crop association.	2		
	iii.	Define tillage and describe the types of tillage.	5		
OR	iv.	What are manures? Describe the classification of nitrogenous fertilizer.			
Q.3	i.	What is permanent wilting point?	1		
	ii.	What is crop water requirement? And write the moisture sensitive stage of following crop- Paddy and Wheat.	3		
	iii.	Define irrigation and describe the surface method of irrigation.	4		
OR	iv.	What is irrigation scheduling? And describe effect of logging on crop yield.			
Q.4	i.	What do you mean by allelopathy?	2		
	ii.	Define relative weed and write the classification of weed based on their ecology	6		
OR	iii.	What is integrated weed management? And describe the cultural method of weed control.			
Q.5	i.	What is plant Ideo-types?	2		
	ii.	Differentiate between growth and development.	2		
	iii.	Explain the principles of crop rotation.	4		
OR	iv.	Describe the factor affecting of crop growth and development.	4		
Q.6		Attempt any two:			
	i.	Define saline soil and describe the reclamation process of saline soil.	4		
	ii.	Define harvesting and explain the methods of harvesting.	4		
	iii.	Describe the adaptation and distribution of Paddy and Wheat crop.	4		

Marking Scheme AG3CO05 Fundamentals of Agronomy

Q.1	i.	Agronomy word derived from- (c) Greek word		1
	ii.	Which seed is called mother seed?		1
		(b) Foundation seed		
	iii.	Which crop has maximum water requirement?		1
		(a) Sugarcane		
	iv.	Which method of irrigation has maximum water us	e efficiency?	1
		(b) Drip irrigation		
	v.	Which is non selective herbicide?		1
		(a) Glyphosate		
	vi.	Botanical name of congress grass is		1
		(b) Parthenium histophorus		
	vii.	Plant Ideo-type concept given by-		1
		(c) M.C. Donald		
	viii.	Which is C_4 crop?		1
		(c) Maize		
	ix.	Brix reading of sugarcane at harvesting time-		1
		(d) 18-20%		
	х.	P ^H of alkali soil is-		1
		(d) 8.5-10		
Q.2	i.	Define Tilth.	1 mark	1
	ii.	Define seed	1 mark	2
		Name of seed according to international crop assoc	iation.	
			1 mark	
	iii.	Define tillage	2 marks	5
		Types of tillage.	3 marks	
OR	iv.	Define manures	2 marks	5
OI	1 V .	Classification of nitrogenous fertilizer.	3 marks	J
		Classification of introgenous fertilizer.	5 marks	
Q.3	i.	Permanent wilting point	1 mark	1
	ii.	What is crop water requirement	1 mark	3
		Moisture sensitive stage of following crop- Paddy	and Wheat.	
		2 marks		
	iii.	Define irrigation	1 mark	4
		Surface method of irrigation.	3 marks	

OR	iv.	Irrigation scheduling	1 mark	4
		Effect of logging on crop yield.	3 marks	
Q.4	i.	Define allelopathy (As per explanation)	2 marks	2
	ii.	Define relative weed	2 marks	6
		Classification of weed based on their ecology	4 mark	
OR	iii.	Integrated weed management	2 marks	6
		The cultural method of weed control.	4 marks	
Q.5	i.	Plant Ideo-types	2 marks	2
	ii.	Difference.(As per answer)	2 marks	2
	iii.	Principles of crop rotation.(As per answer)	4 marks	4
OR	iv.	Factor affecting of crop growth and development.		4
		(As per answer)	4 marks	
Q.6		Attempt any two:		
	i.	Define saline soil	1 mark	4
		The reclamation process of saline soil.	3 marks	
	ii.	Define harvesting	1 mark	4
		The methods of harvesting.	3 marks	
	iii.	Describe the adaptation and distribution of-		4
		Paddy	2 marks	
		Wheat crop.	2 marks	
