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	Question Paper Code: 55A02												
B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019													
		Fifth S	Semes	ster									
		Agriculture	Eng	ineeı	ring								
	15UAG	502 TILLAGE AN	D SO	WIN	IG I	MPI	LEM	ENT	ſS				
		(Regula	tion 2	2015))								
Dur	ation: Three hours							N	laxir	num	: 100) Ma	rks
		Answer AI	LL Qı	iestio	ons								
		PART A - (10	x 1 =	10 1	Mar	ks)							
1.	An average man can developed maximum energy for doing farm work									CO	1- R		
	(a) 1 hp	(b) 0.5 hp	(c) 0.1	hp				((d) 1.	.5 hp)	
2. When ploughing one hectare of land once by bullocks having 15 furrow width, has to walk about (km)							15 ci	n.			CO	1- R	
	(a) 66	(b) 55	(c) 50						(d) 6	0		
3. Planting or sowing is made directly into an unprepared see known as							seed	bed	is			CO2	2- R
	(a) Mulch tillage	(b) Zero tillage	(c) Sui	face	e till	age			(d) P	loug	h till	age
4.	Farmers depends upon the animal drawn implements (%) about								CO	2- R			
	(a) 60	(b) 70	(c) 80					((d) 9	0		
5.	Blade harrow is known as									CO	3- R		
	(a) Bakhar harrow	(b) Spike tooth	(c) Pat	ela				((d) A	cme	Har	row
6.	Planter differs from a seed drill in respect of CO3-							3- R					
	(a) Ground wheel		(b) Me	eteri	ng n	necha	nisn	n				
	(c) Gauge wheel		(d) No	ne c	of the	e abo	ve					
7.	Random scattering of the seeds on the soil surface are known as									CO	4- R		
	(a) Dibbling (b) Planter (c) Broad casting							(d) Hill dropping					
8.	Subsoilers can be operated at a maximum depth up to										CO	4- R	
	(a) 10 cm	(b) 20 cm	(c) 100) cr	ı			((d) 5	0 cm	ı	

9.	For M E	greater degree o B Plough.	CO5- R				
	(a) S	Stubble	(b) Wing	(c) Stay bar	(d) Paddle		
10.	Juni	Junior hoe is primarily used for				CO5- R	
	(a) l	Breaking clods		(b) Seed bed preparation			
	(c) v	Weeding		(d) Spraying			
			PART – B	(5 x 2= 10Marks)			
11.	List	out four benefits	CO1- R				
12.	Indi	cate four objectiv	CO2- R				
13.	Diff	erentiate seed dr	CO3- R				
14.	Rec	ognise the differ	CO4- R				
15.	Stat	e about a duck fo	CO5- R				
			PART –	C (5 x 16= 80Marks)			
16.	(a)	Define farm me challenge, impo	echanization. Expla ortance and limitatio Or	in in detail about present scope, on of farm mechanization	CO1- App	(16)	
	(b)	Assess the follo	owing:		CO1- App	(16)	
		(i) Theoretical f(ii) Effective field	field capacity eld capacity				
17.	(a)	Discuss about of disc plough	lisc plough, its type	es, adjustment and maintenance	CO2- App	(16)	
	(1)		Or	(1 1.00 (1 (CO2 4	(1c)	
	(b)	devices in a pla	a planter. what as nter?	re the different seed metering	CO2- Ana	(16)	
18.	(a)	Discuss about a with neat sketcl	harrow, its types an	nd components of disc harrow	CO3- Ana	(16)	
			Or				
	(b)	help of a diagra	m.	nd tilt angle. Explain with the	CO3- Ana	(16)	
19.	(a)	Discuss the m power.	erits and demerits	of different sources of farm	CO4- U	(16)	
			Or				

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- (b) Discuss about the types of seed drills and explain method of CO4- Ana (16) calibration of a seed drill
- 20. (a) Interpret the following:

CO5- U (16)

- (i) Zero tillage
- (ii) Strip tillage
- (iii) Paddy seeder

Or

(b) Draw a neat sketch and explain the types of weeders and their CO5-U (16) importance in weeding operations