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Reg. No. :
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# **Question Paper Code: 52708**

### B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2019

#### Second Semester

## Agriculture Engineering

#### 15UAG204-PRINCIPLES OF AGRICULTURAL ENGINEERING

		(Regula	ation 2015)									
Dura	ation: Three hours	Answer A	LL Questions	Maximum: 100	) Marks							
	PART A - $(10 \times 1 = 10 \text{ Marks})$											
1.	The downward movement of water through the soil profile is known as CO1-											
	(a) Percolation	(b) Seepage	(c) Drainage	(d) Interfl	ow							
2.	Thermal decomposition	on of organic matter	in the absence of air is		CO1- R							
	(a) Gasification		(b) Densification									
	(c) Biogas production		(d) Biomass production									
3.	is a prima	ry tillage equipmen	t.		CO2- R							
	(a) Plough	(b) Thresher	(c) Harvester	(d) Reaper								
4.	is a micro irr	rigation method			CO2- R							
	(a) Bund	(b) Ridges	(c) Furrow	(d) Drip								
5.	Pasteurization of milk	is done at	°C		CO3-R							
	(a) 50	(b) 72	(c) 90	(d) 110								
6.	Screw conveyor can b	e used at <sup>0</sup> fo	or transport of materials		CO3-R							
	(a) 45	(b) 90	(c) 55	(d) 60								
7.	Stanchion barn is also	known as	barn		CO4- R							
	(a) Loose house	(b) General purpo	se (c) Open air	(d) Lofing								
8.	The main difference b	etween planter and	seed drill is		CO4- R							
	(a) Row spacing	(b) Sowing	(c) Covering the seed	(d) Speed								
9.	is used for sto	re animal fodder			CO5- R							
	(a) Silos	(b) Bukhari	(c) Kothar	(d) Morai								

10.	In b	In biomass conversion process, briquetting is a process				C	O5- R		
	(a) (	(a) Chemical (b) Hydrothermal (c) Thermal (d) Co		ompression					
			P	ART – B (5 x 2	= 10 Marks)				
11.	List	List the soil erosion control measures.						CO1-R	
12.	Defi	Define Tillage.						CO2- R	
13.	List	the material h	andling equi	pments.			CO3-R		
14.	Wri	Write any four application of solar energy.						CO4- U	
15.	Wri	Vrite the principle of green house.						CO5-R	
				PART – C (5 x	16= 80 Marks)				
16.	(a)	Classify the diagrams.	methods o	of irrigation a	nd illustrate w	rith suitable	CO1-U	(16)	
				Or					
	(b)	-	-		management. I		CO1-U	(16)	
17.	(a)	Explain primused for varie	-		and discuss the	implements	CO2-U	(16)	
				Or					
	(b)	Describe the paddy.	harvest met	thods and mach	hineries used fo	or harvesting	CO2-U	(16)	
18.	(a)		Specify the r	ole of cold stor	involved in rage in minimiz	_	CO3- U	(16)	
				Or					
	(b)	Discuss the rone dairy pro		ing and explain	the process inv	olved in any	CO3-U	(16)	
19.	(a)	Explain any	one type of b	oiogas plant witl	h a neat sketch.		CO4-U	(16)	
				Or					
	(b)	Discuss how	different agr	ricultural waste	can be effective	ly utilized.	CO4-U	(16)	
20.	(a)	Discuss the s	tructure of st		vith a neat sketcl	1.	CO5- U	(16)	
	<i>(</i> 1) :	<b></b>	_	Or	1.0		005	/4 ~	
	(b)	Describe the	storage meth	nods for feed an	d forage.		CO5- U	(16)	