Reg. No. :											
------------	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code: 51024

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Second Semester

Agricultural Engineering

15UAG204 - PRINCIPLES OF AGRICULTURAL ENGINEERING

(Regulation 2015)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1.	The downward movement of water through the soil profile is known as						
	(a) percolation	(b) seepage	(c) drainage	(d) interflow			
2.	is a micro irrigation	1.					
	(a) flooding	(b) furrow	(c) check basin	(d) drip			
3.	used to harvest, thresh and clean the grain from the straw in one operation.						
	(a) combines	(b) thresher	(c) harvester	(d) reaper			
4.	is a primary tillage equipment.						
	(a) plough	(b) sweeps	(c) cultivator	(d) tillers			
5.	5. Pasteurization of milk is done at C.						
	(a) 50	(b) 72	(c) 90	(d) 110			
6.	is used for ripening.						
	(a) ethylene	(b) CO2	(c) O2	(d) Nitrogen			
7.	is an example of renewable energy.						
	(a) wind	(b) coal	(c) natural gas	(d) liquid fuel			
8.	In biomass conversion proc	ess briquetting is a	process.				
	(a) physical	(b) chemical	(c) biochemical	(d) mixed			

9.	Stanchion barn is also know	vn as harn					
).	(a) loose house		(c) open air	(d) lofing			
10	is used for store a		(c) open an	(4) 1011115			
10	(a) silos	(b) Bukkhari	(c) kothar	(d) Morai			
		PART - B (5 x $2 = 10$ M		(4) 110141			
11							
	Indicate the importance of a		n giobai scenario?				
	12. What is meant by fertigation?						
13.	Name the unit operations do	one in agricultural proces	sing.				
14	Define gasification.						
15	Sketch stanchion barn and I	name the parts.					
]	PART - C (5 x $16 = 80$ M	larks)				
16	(a) Define soil erosion and	discuss soil conservation	n methods in detail.	(16)			
		Or					
	(b) Discuss soil water plan	t relationship in detail.		(16)			
17. (a) Describe secondary tillage equipment with necessary diagram. (
Or							
	(b) Explain the harvesting	method for groundnut an	d potato.	(16)			
18	(a) Discuss the importance	of ripening chamber and	l sold storage in fruit in	dustry. (16)			
		Or					
	(b) Explain any two materi	al handling equipments v	with neat sketch.	(16)			
19	(a) Describe the utilization	of wind energy and bio	gas energy in agricultu	ral operations.			
				(16)			
		Or					
	(b) Describe gasification of	f bio mass with necessary	y sketch.	(16)			
20.	(a) Explain any two types of	of poultry house with nea	t sketch.	(16)			
		Or					

(b) Explain any three storage structures used for food grain storage. (16)