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Reg. No.:					

# **Question Paper Code: 99A11**

## B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

#### Elective

## Agricultural Engineering

### 19UAG911- Drying and Storage Engineering

(Regulations 2019)

		(Trogulation	15 = 0 1 )		
Dur	ation: Three hours		M	aximum: 100 Ma	rks
		Answer ALL	Questions		
		PART A - (10 x	1 = 10 Marks)		
1.	Moisture content is	expressed as a			CO1- U
	(a) Boiling	(b) Temperature	(c) Percentage	(d) kilo gran	m
2.	What is a triple point of pure water?				CO1- U
	(a) -0.01°C	(b) 0.01°C	(c) 0.1°C	(d) -0.1°C	
3.	In freeze drying the	removal of moisture take	place due to		CO2- U
	(a) Boiling	(b) condensation	(c) sublimation	(d) none of t	he above
4.	The level of post ha	rvest perishables is			CO2- U
	(a) 10-15%	(b) 25-33%	(c) 20-25%	(d) 35-40%	, D
5.	What is the maximu	m storage period of food	grains in rural godo	wns?	CO3- U
	(a) 2 months	(b) 5 months	(c) 8 months	(d) 10 month	ıs
6.	has the lan	gest agricultural warehou	ising systems		CO3- U
	(a) FCI	(b) CWC	(c) SWCs	(d) none of the	e above
7.	systems	can be installed in both h	orizontal and vertica	al storages	CO4- U
	(a) mechanical	(b) ware house	(c) natural	(d) silo	
8.	Silos are used on lar	ge scale for the bulk stor	age of which of the f	following?	CO4- U
	(a) oil seeds	(b) beans	(c) fruits	(d) none	
9.	The capacity of koth	nar type storage structure	varies from:		CO5- U

(c) 10 to 40 tonnes

(d) 9 to 35 tonnes

(b) 7 to 25 tonnes

(a) 5 to 15 tonnes

10.	The storage capacity of mud kothi is						O5 -U	
	(a) 1	to 20 tonnes	(b) 1 to 30 tonnes	(c) 1 to 40 tonnes	(d) 1	(d) 1 to 50 tonne		
			PART - B (5	x 2= 10Marks)				
11.	List	out the importa	ance of EMC.			CO	01 <b>-</b> U	
12.	Explain about tray & tunnel dryers.							
13.	Explain about aeration process?							
14.								
15.	. Explain about bukhari storage structure ?							
			PART – C	(5 x 16= 80Marks)				
16.	(a)	Write in detail	about Thin layer and I	Deep bed dryer with neat sket	ch?	CO1- U	(16)	
	(b)	What is moist	ure content and explain	its methods?		CO1- U	(16)	
17.	(a)	Explain about sketch?	solar dryer and continu	ous flow dryer with neat		CO2 -U	(16)	
			Or					
	(b)	Explain breifly	y about sun drying and	its method with neat sketch?	,	CO2 -U	(16)	
18.	(a)	Explain about	Storage of perishable p	products?		CO3- U	(16)	
	(b)	Explain about	any five causes of spoi	lage in storage?		CO3 -U	(16)	
19.	(a)	• •	n about natural ventilati ds with neat sketch? Or	on, Mechanical ventilation o	f	CO4- U	(16)	
	(b)	Explain abou methods?		l atmospheric storage and	its	CO4 -U	(16)	
20.	(a)	Explain about sketch?		ns and their products with 1	neat	CO5 -U	(16)	
	(b)	Driafly avala	Or in about types of gra	in storage structure with	noet	CO5 II	(16)	
	(b)	sketch?	m about types of gra	in storage structure with r	ıcat	CO3- U	(16)	