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(a) Xenon

Reg. No.:					

Question Paper Code: 99A11

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023

Elective

Agricultural Engineering

19UAG911 - Drying And Storage Engineering

		(Regulation	on 2019)		
Dur	ation: Three hours			Maximum: 100 Marks	
		Answer ALI	Questions		
		PART A - (10 x	1 = 10 Marks)		
1.	In vacuum oven me	ethod of moisture content det	ermination the samp	le is kept atdegree Celsi	us
	for 72-96 hours.			CO1-	R
	(a) 100	(b) 20	00 (c) 300	(d) 400	
2.	Moisture content of	CO1-	- R		
	(a) 12%	(b) 14	1% (c) 16%	(d) 18%	
3.	In which of the fo	llowing is used for radiation	on drying		
				CO2-	R
	(a) spray dryer	(b) drum dryer	(c) flash dryer	(d) microwave drye	er
4.	packaging he	CO2-	- R		
	(a) septic	(b) as	eptic (c) HDP	PE (d) LDPH	
5.	Which of the folloand vegetables?	owing microorganism is po	opular for spoilage	in fruits CO3-	- R
	(a) mesophile	(b) thermophile	(c) psychro	phile (d) all the above)
6.	Coefficient of per	formance of dryer is		CO3-	- R
	(a)1/HUF	(b) HUF – 1	(c) HUF + 1	(d) 1- HUF	
7.	is the mo	ost widely used inert gase	s in modified atmo	ospheric CO4-	- R

(c) Argon

(d) Helium

(b) Neon

8.	whi	ch of the following is u	ised to pack coffee		(CO4- R	
	(a) l	LDPE	(b) HDPE	(c) Both	(d) none		
9.	whi	ch of the following is u	used for primary packag	ing of butter	(CO5- R	
	(a) o	oiled paper	(b) Kraft paper	(c) wax paper	(d) parchment	paper	
10.	The	length of storage of fr	uits in vegetable is a fur	ection of	(CO5 -R	
	(a) 1	resistance to attack by	he environment				
	(c) l	ooth a and b	(d) none of the	ne above			
			$PART - B (5 \times 2 = 10)$)Marks)			
11.	Exp	lain the term of theory	of diffusion and critical	moisture content.	(CO1- U	
12.	What are the requirement of ideal grain storage structure?						
13.	What are the types of spoilage in storage?						
14.	Wha	(CO4- U				
15.	Wha	(CO5- R				
			$PART - C (5 \times 16^{-1})$	= 80Marks)	CO1 H	(1.6)	
16.	(a)	Importance of EMC a content, principles o	and measurement of equ f drying First. Or	ilibrium moisture	CO1- U	(16)	
	(b)	Explain the detail ab determination.	out the moisture conten	t and method for	CO1- U	(16)	
17.	(a)	Explain the details a	bout the types of spoilag	ge and areas.	CO2 -U	(16)	
	(b)	Explain the details a storage.	about the control of env	riroment inside the	e CO2 -U	(16)	
18.	(a)	Explain the details a	bout the theory of diffus Or	sion.	CO3- U	(16)	
	(b)	Explain the details a microwave heating.	bout the types of microv	wave dryers and	CO3 -U	(16)	
19.	(a)	Explain the types of	storage and classification	on.	CO4- U	(16)	
	(b)	Explain the details a	bout the Destructive Ag	gents in Storage.	CO4 -U	(16)	

20. (a) Explain the details about the Destructive Agents in Storage.

Or

(b) Explain the details about the storage of cereal grains.

CO5- U (16)