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Reg. No.:

Question Paper Code: 99A11

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

Elective

Agricultural Engineering

19UAG911 - Drying And Storage Engineering

(Regulation 2019)

		(Regulatio	on 2019)			
Dur	ation: Three hours			Maximum: 100 M	I arks	
		Answer ALI	Questions			
		PART A - (10 x	1 = 10 Marks)			
1.	Thin layer of dry		CO1- R			
	(a) 10	(b) 20	(c) 30	(d) 40		
2. Moisture content of paddy at the time of milling should be						
	(a) 12%	(b) 14	1% (c) 16%	(d)	18%	
3.	3. In which of the following is used for radiation drying					
				CO	2- R	
	(a) spray dryer	(b) drum dryer	(c) flash drye	r (d) microw	ave dryer	
4packaging helps for increasing shelf life of milk					CO2- R	
	(a) septic	(b) as	eptic (c) HD	PE (d) LD	PH	
5.	Which of the following microorganism is popular for spoilage in fruits and vegetables?					
	(a) mesophile	(b) thermophile	(c) psychr	ophile (d) all t	he above	
6.	Coefficient of per	rformance of dryer is			CO3- R	
	(a)1/HUF	(b) HUF – 1	(c) HUF + 1	(d) 1- HUF		
7 is the most widely used inert gases in modified atmospheric packaging					CO4- R	
	(a) Xenon	(b) Neon	(c) Argon	(d) Helium		

8.	whic	h of the following is us	sed to pack coffee		(CO4- R
	(a) L	DPE	(b) HDPE	(c) Both	(d) none	
9.	whic	h of the following is us	sed for primary packag	ing of butter	(CO5- R
	(a) o	iled paper	(b) Kraft paper	(c) wax paper	(d) parchment	paper
10.	The	length of storage of fru	its in vegetable is a fur	ection of	(CO5 -R
	(a) r	esistance to attack by n	nicro organism	(b) gases in the	ne environment	
	(c) b	oth a and b		(d) none of th	e above	
			$PART - B (5 \times 2 = 10)$	Marks)		
11.	Expl	ain the term of theory	of diffusion and critical	moisture content.	(CO1- U
12.	Wha	t are the requirement o	f ideal grain storage str	ructure?	(CO2- U
13.	. What are the types of spoilage in storage ?					CO3- U
14.	What is mean by breakage of Seeds?				CO4- U	
15.	. What are the types of traditional Storage Structures?				(CO5- R
			$PART - C (5 \times 16 = 1)$	= 80Marks)		
16.	(a)	Explain the details ab sketch.	out different type of dr	ryers and with neat	CO1- U	(16)
	<i>a</i> . \		Or			
	(b)	Explain the detail abordetermination.	out the moisture conten	t and method for	CO1- U	(16)
17.	(a)	Explain the details ab	out the types of spoilag	ge and areas.	CO2 -U	(16)
	(b)	Explain the details storage.	about the control of	enviroment insid	e the CO2-U	(16)
18.	(a)	Explain the details ab	out the theory of diffus	sion.	CO3- U	(16)
	(b)	Explain the details ab microwave heating.	out the types of microv	wave dryers and	CO3 -U	(16)
19.	(a)	Explain the types of s	storage and classification	on.	CO4- U	(16)
	(b)	Explain the details ab	out the Destructive As	gents in Storage	CO4 -U	(16)

20. (a) Explain the details about the storage of seeds. CO5- U (16)
Or

(b) Explain the details about the storage of cereal grains. CO5- U (16)