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Reg. No. :					

# **Question Paper Code: 97A02**

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

#### Seventh Semester

## Agricultural Engineering

### 19UAG702- CROP PROCESS ENGINEERING

(Regulations 2019)

Dur	ation: Three hours		ľ	Maximum: 100 M	Iarks	
		Answer AL	L Questions			
		PART A - (10 2	x 1 = 10  Marks			
1.	Which of the following		CO1-U			
	(a) Availability of foo	od	(b) Removal of toxins			
	(c) Add extra nutrient	S	(d) All of the above			
2.	Food processing is the	e transformation of ag	ricultural products into.	?	CO1- U	
	(a) Grains	(b) Food	(c) Both (a) and (b)	(d) Flour		
3.	Rabi crops are grown	in season			CO1- U	
	(a) summer	(b) spring	(c) winter	(d) rainy		
4.	Growing different crecalled	ops alternatly on the s	same land is technically	7	CO1- U	
	(a) Crop alternation	(b) crop rotation	(c) crop revolution	(d) crop chang	e	
5.	The removal of mois is called as	ture from the food ma	aterials for preservation	1	CO1- U	
	(a) dehydration	(b) freezing	(c) heat processing	(d) pasteurizat	ion	
6.	Seed of Horse gram c	ontainsinhibitor			CO1 -U	
	(a) Trypsin	(b) Polyphenols	(c) emagglutinins	(d) All the abo	ve	
7.	The optimum seed rat	te of soybean for norm	nal planting is		CO1-U	
	(a)50-60 kg/ha	(b) 0-70kg/ha	(c) 70-80kg/ha	(d) 80-90kg/ha	l	

8.		spring soybean, so ting	eed should be	than that of kharif		CO1- U	
	(a) I	More	(b) Less	(c) Similar	(d) Double		
9.	The	Crop which is goo	od for diabetic patien	nt		CO1 U	
	(a) (	Green gram	(b) Ground nut	(c) soyabean	(d) Cowpea		
10.	In the	•	the grain seed in se	eparated from the chaff this	s process it	CO1- U	
	(a) t	threshing	(b) seeding	(c) poulying	(d) weeding		
			PART - B (5	$5 \times 2 = 10 \text{Marks}$			
11.		out the name of ration of agricultur	-	ucts, and give two example	es of unit	CO1- U	
12.	Exp	lain the rittingers	law.			CO1-U	
13.	. Mechanisum of size reduction (a) Impact (b) Attrition						
14.	. What is the difference between of hardness and toughness?						
15.	5. What are the types of traditional Storage Structures?						
			PART - C	$(5 \times 16 = 80 \text{Marks})$			
16.	(a)	Explain the detai	l about parboiling of	f paddy processing.	CO1-U	(16)	
	(1-)	F1 41 1-4-	Or	:11:414 -14-1	1 (001 II	(1.0)	
	(b)	•	es and disadvantage	gy mill with neat sketch are sof it.	ind COI-O	(16)	
17.	(a)	Illustrate the prin	ciples and methods Or	of food Processing.	CO2-App	(16)	
	(b)	Illustrate the Ric	e milling process		CO2-App	(16)	
18.	(a)	Explain the detai	l about the methods Or	of milling pulses?	CO2-App	(16)	
	(b)	Illustate the deta drives.	ail about the types	of flat belt drives and V-b	oelt CO2-App	(16)	
19.	(a)	Illustate the det Advantage and d	•	utter mill with neat sket	ch. CO1-U	(16)	
	(b)	Explain the detai advantage and di	CO1-U	(16)			

20. (a) Explain the details about the Inclined belt separator with neat CO1-U (16) sketch, advantage and disadvantage

Or

(b) Explain the details about groundnut decorticator with neat sketch, CO1-U advantage and disadvantage. (16)