Reg. No.:					

## **Question Paper Code: 97A02**

## B.E. / B.Tech. DEGREE EXAMINATION, APRIL 2024

Seventh Semester

Agricultural Engineering

19UAG702- Crop Process Engineering

(Regulations 2019)

Duration: Three nours		Maximum: 100 Marks
	Answer ALL Questions	

PART A -  $(10 \times 1 = 10 \text{ Marks})$ 

1.	Which of the following is an advantage of food processing?					
	(a) Availability of foo	od	(b) Removal of toxi			
	(c) Add extra nutrient	s	(d) All of the above			
2.	Tertiary food processing is the commercial production of what is commonle called					
	(a) Primary	(b) Secondary	(c) Processed food	(d) None of the	above	
3.	The crop which are grown in rainy season are called					
	(a) rabi crop (b	) seasonal crop	(c) monsoon crop	(d) kharif crop		
4.	Growing different cro	ps alternatly on the sa	nme land is technically	called	CO2- U	
	(a) crop alternation	(b) crop rotation	(c) crop revolution	(d) crop chan	ge	
5.	In the harvested crop called	the grain seed in sepa	rated from the chaff th	is process it	CO3-U	
	(a) threshing	(b) seeding	(c) poulying	(d) weeding		
6.	Process of adding vitamins to milk is known as					
	(a) flavouring	(b) fortification	(c) fermentation	(d) sterilization	n	
7.	. Which of the following is a performance parameter for the food industry?					
	(a) Hygiene		(b) Labour Used			
	(c) Hygiene & Labou	ır Used	(d) None of the above			

8.	Seed of Horse gram containsinhibitor							
	(a) T	Гrypsin	(b) Polyphenols	(c) aemagglutinins	(d)	All the al	oove	
9.	The	optimum seed	rate of soybean for nor	rmal planting is			CO5- U	
	(a) 5	50-60 kg/ha	(b) 60-70kg/ha	(c) 70-80kg/ha	(d) 80	90kg/ha		
10.	Whi	ich of the follow	ving is a fermented bev	verage?			CO5 -U	
	(a) T	Γari and Perry	(b) Cider and Wine	(c) Vinegar and Malt	(d) Al	l of the al	oove	
			PART – B (5	5 x 2= 10Marks)				
11.	Exp	lain the rittinge	rs law				CO1- U	
12.	Wha	at is mean by si	ze reduction machines	?			CO2- U	
13.	Def	ine theory of m	ixing?				CO3- U	
14.	Exp	lain the distillat	ion process.				CO4- U	
15.	Wha	at is mean by th	eory of separation?				CO5- U	
			PART – C	(5 x 16= 80Marks)				
16.	(a)	Explain in det	ail about parboiling of	paddy processing.		CO1- U	(16)	
			Or					
	(b)	Explain in det	ail about principles and	d methods of food Process	ing.	CO1- U	(16)	
17.	(a)	-	etail about fluid energ n advantages and disad Or	gy mill with neat sketch vantages of it.	and	CO2 -U	(16)	
	(b)			with neat sketch and be of it	riefly	CO2 -U	(16)	
18.	(a)	Explain in det	ail about the methods o	of milling pulses		CO3- U	(16)	
	(b)	Explain in det	ail about the processing	g of oil seeds?		CO3- U	(16)	
19.	(a)	•	ail about the method of and disadvantages. Or	f separation and briefly ex	plain	CO4 -U	(16)	
	(b)			tion conveyor with neat sk disadvantage.	etch,	CO4 -U	(16)	

20. (a) Explain the details about the belt conveyor and chain conveyor CO5- U (16) with neat sketch, advantage and disadvantage.

Or

(b) Explain the details about the screw conveyor with neat sketch, CO5-U (16) advantage and disadvantage.