MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

	B.Tech. (Agril. Engg.)									
	ester	:	IV (New)	Term	:	II	Acade	mic Year	: 2015-16	
	rse No.	:	APE 244	Title	:	Crop	Process Eng	oineering .		
Cred	& Date	:	3 (2+1)					_		
		÷	Wednesday, 04.05.20				to 17.00	Total M	arks : 80	
	Note:	1. 2. 3. 4.	All questions from S	ECTION "B" qual marks.	are	compul				
				SECTION	"A	, , ,				
1	Explain the different methods of fruits and vegetables preservation.									
2	Enlist the different post harvest unit operation of grain crops and explain it in short.									
3	Expla	in t	he construction detai	ls of screw cor	ivey	or wit	h neat diagr	am.		
4	What are the advantages and disadvantage of parboiling of paddy?									
5										
16	a) Exp	lai	n the process for tom	ato cocktail.			34			
	b) Wh	at a	are the advantages of	hot pulping of	ton	natoes	?			
	a) Dra	w t	he flow chart for pre	paration of por	neg	ranate	RTS.			
b) Explain the process for preparation of banana powder.										
a) Explain the Bond's law for estimation of power requirement for crushingrinding.						crushing a	nd			
	b) Calc	cula es 1	ate the power require through IS sieve No.4 through IS sieve No.5	480 (4.75 mm	ope	ning) a	and 80 % of	the produc	et	
	a) Exp	ain	the principle and wo	orking of pneu	mat	ic sepa	arator.			
			basic flow chart of r							
10	Enlist the point	he nts	most common types to be considered whi	of mechanicalle selecting th	al de	evices nveyi	for grain h	andling and	d give	
	-			SECTION	"B"					
11	Fill in t	he	blanks.							
	1) For t	ran	sportation of grain b	y belt conveyo	r, t	he belt	speed shou	ld not incr	ease	
	,		conveyor can be used							
	,		emesh is usually spe							
	linea									
			ight of hull is	% of the	tot	al wei	ght of padd	y g rai n.		
	,							(P.T	.O.)	

	5) Pulses contain about% carbohydrate. 6) is the dispersing of components one throughout the components one components on components one components on compo							
4	7) The red colour of tomato is due to pigments. 8) indicates the uniformity of grind in resultant product							
Q.12	Define the following terms.							
Q.12	1) Shelling 2) Cleaning							
	3) Aperture	4) Shearing 6) Degree of grinding						
	5) Crushing efficiency							
	7) Effectiveness of screen							
		Proceedings of the second						
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