Reg. No. :								
Ouestion Paper Code: 54A02								

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Fourth Semester

Agriculture Engineering

15UAG402-POST HARVEST TECHNOLOGY

(Regulation 2015)

(Usage of psychometric chat is approved)

Duration: One hour Maximum: 30 Marks

PART A - $(6 \times 1 = 6 \text{ Marks})$

(Answer any six of the following questions)

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1.	The following is an indirect type of moisture measurement method				
	(a) Air oven	(b) desiccators			
	(c) infrared	(d) electrical resistance			
2.	A mixing type continuous flow dryer is		CO1- R		
	(a) Flat bed dryer (b) LSU dryer	(c) Recirculating dryer	(d) None of these		
3.	Drying is a process of		CO2- R		
	(a) Heat transfer	(b) Mass transfer			
	(c) Heat and Mass transfer	(d) Moisture transfer			
1.	Recent innovation in belt conveyor system	for grain handling is	CO2- R		
	(a) Belt speed upto 4.5 m/s	(b) Belt speed from 2.5-	2.8 m/s		
	(c) Belt speed upto 3.5 m/s	(d) Belt speed upto 5.5 n	n/s		
5.	A scalper is used for		CO3- R		
	(a) Fine separation of materials	(b) medium separation o	f materials		
	(c) rough separation of materials	(d) stone separation			
6.	refers to the removal of large	particles in initial process	CO3- R		
	(a) Grading (b) Sorting	(c) Scalping	(d) None of these		

7.	The following material handling equipment is more convenient to transport material over long distance				
	(a) Screw conveyor	(b) belt conveyor			
	(c) pneumatic conveyor	(d) bucket elevator			
8.	Glazing of rice is done using			CO4- R	
	(a) Talc powder (b) Hydrogen peroxic	de (c) Water	(d) CO_2		
9.	Limitation of Pneumatic Conveying is/ are			CO5- R	
	(a) Erosion of solid surfaces	(b) Erosion of duct			
	(c) Impact between particles	(d) All of the above	e		
10.	In rubber roll sheller, the dehusking of paddy occurs due to				
	(a) Shear	(b) shear and impac	et		
	(c) shear and compression	(d) compression and impact			
	PART – B (3	3 x 8= 24 Marks)			
	(Answer any three of	the following questions)			
11.	Specify the importance of optimum stage of working of mechanical thresher for paddy.	harvest. Explain the	CO1- U	(8)	
12.	Define seven thermodynamic properties importance in drying	of air and specify its	s CO2- U	(8)	
13.	Explain the working of spiral separator and	magnetic separator.	CO3- U	(8)	
14.	Describe working of maize sheller and ground	ndnut decorticator	CO4- U	(8)	
15.	Explain the working of rubber roll sheller an	nd rice polisher.	CO5- U	(8)	