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Question Paper Code: 55A03

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

Fifth Semester

Agriculture Engineering

15UAG503 - PLANT PROTECTION AND HARVESTING EQUIPMENTS

(Regulation 2015)

Duration: Three hours Answer A			Maximum: 100 Marks ALL Questions		
		PART A - (1	$10 \times 1 = 10 \text{ Marks}$		
1.	Khurpi is a	tool.		CO1- R	
	(a) Spraying	(b) Sowing	(c) Weeding	(d) Planting	
2.	The working angle of a hand hoe varies between			CO1- R	
	(a) $70-80^0$	(b) $60-70^0$	(c) $80-90^0$	(d) $90-100^0$	
3.	Foliar spraying is done on the of		of plants.	CO2- R	
	(a) Root	(b) Leaves	(c) Stem	(d) Flowers	
4.	The expansion of NMD is			CO2- R	
	(a) Numerical mean diameter		(b) Non mean diam	neter	
	(c) Number mean distance		(d) Number mean d	liameter	
5.	Sprayers disperse insecticides in		form.	CO3- R	
	(a) Liquid	(b) Gas	(c) Solid	(d) All the above	
6.	A vertical conveyor reaper cans harvest_		·	CO3- R	
	(a) Wheat crop only		(b) Grasses only		
	(c) Wheat and grasses		(d) Wheat and shru	bs	

7.	A co	ombine harv	ester can perform	·		CO4- R
	(a) Harvesting of crops only			(b) Threshing of crops	only	
(c) Both harvesting a			ing and threshing	(d) Harvesting, threshin	ng and packagin	ng
8.	A th	resher cause	es more damage due t	to		CO4- R
	(a) Increase in cylinder speed		(b) Increase in cylinder	clearance		
	(c) Increase in aspirator speed		(d) Increase in feed rate	2		
9.	Bro	Broadcasting is done for		.		CO5- R
	(a) Plucking of seeds		seeds	(b) Spraying of seeds		
	(c) Sowing of seeds		eeds	(d) Planting of seeds		
10.	The reversible plough coverstype of ploughs.			when compared to ot	her	CO5- R
	(a) l	Less area	(b) More area	(c) Equal area (d)	Minimum area	
			PART –	- B (5 x 2= 10Marks)		
11.	. Write notes on dry land weeders.					CO1- R
12.	. Differentiate sprayer from duster and give examples for both.					CO2- U
13.	. Brief the role of reapers in agricultural operations.					
14.	. What is a post hole digger?					
15.	. Enlist the role of a seed drill in farming operations.					CO5- U
			PART	C − C (5 x 16= 80Marks)		
16.	(a)	Explain in	detail about the dry a	and wet land weeders.	CO1- U	(16)
				Or		
	(b)		•	red in selection, construction a intercultural equipments.	nd CO1-U	(16)
17.	(a) Classify sprayers with neat sketches.		CO2- Ana	(16)		
				Or		
	(b)	Examine the spraying property of the spraying		tion and the role of an atomizer	in CO2- Ana	(16)

18. (a) Describe the combine harvester giving importance to its CO3-U (16) construction and working principle.

Or

- (b) Discuss about potato, groundnut and other tuber crop diggers with CO3-U illustrations. (16)
- 19. (a) Classify threshers? Write about the construction and working of a CO4- Ana (16) multi crop thresher.

Or

- (b) Classify the various types of forest machineries available CO4- Ana (16) commercially.
- 20. (a) Discuss elaborately about the pneumatic planter and reversible CO5-U plough. (16)

Or

(b) Discuss elaborately about various equipments used for paddy CO5-U (16) cultivation.