

Code No: **RT41355** 

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IV B.Tech I Semester Supplementary Examinations, February/March - 2018

## SEED PROCESING AND STORAGE ENGINEERING

(Agriculture Engineering)

Time: 3 hours

Max. Marks: 70

## Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B \*\*\*\*\*

## PART- A(22Marks)

1	a)	Differentiate between types of moisture.	[3]
	b)	Compare heated and unheated driers.	[3]
	c)	Explain air moment in a store house.	[4]
	d)	List out the changes occurring in grains during their storage.	[4]
	e)	Write briefly about brick and cement bin.	[4]
	f)	Explain the methods of storage of grains under controlled atmospheric conditions.	[4]
		<b>PART –B(3 X 16=48Marks)</b>	
2	a)	Explain the method of construction, principle of operation, advantages, and disadvantages of flatbed type of batch driers.	[8]
	b)	List out and explain major air distribution systems with neat diagrams.	[8]
3	a)	Explain in detail the construction and operation of rotary drier with a	
		neat labeled sketch.	[8]
	b)	Explain the construction, air distribution system, grain discharge mechanism in a CSU drier.	[8]
4	a)	List out different types and causes of spoilage occurring during storage.	[8]
	b)	Explain the changes occurring in stored grains due to moisture and	
		temperature.	[8]
5	a)	List out the sources of insect infestation and explain the factors	501
	h)	responsible for enhancing insect infestation.	[8]
	0)	the environment inside a store house	<b>FQ</b> 1
		the environment miside a store nouse.	[0]
6	a)	Define and explain in detail about the hermitically sealed and air cooled	
		storages.	[8]
	b)	Give a brief account on design aspects of bag storage structures.	[8]
7	a)	Give a detailed account on essential components and limitations in the	503
	1 \	use of pneumatic conveyer.	[8]
	b)	Explain the salient features of belt conveyers in respect of belt tension	101
		power requirements and design considerations.	ð