## KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2011 Admission VI<sup>th</sup> Semester Final Examination- July -2014

Cat. No: Fdsc.3205

Title: Food Inc	dustry Waste Management (2+0)	Marks: 80 Time: 3 hours
A. Fill in the blan	ks	10x1 = 10
1. Oil content of	rice bran from parboiled paddy is	_%
<ol> <li>Amorphous sil</li> <li>There are</li> </ol>	content of desiccated coconut isica is used as	_% s
6. Rice bran stabi	lization can be achieved by methods	(two/three/four)
allor a Phys. 18	mass produces	
	asifier air is introduced the combusti	on zone. (below/above)
	ologas is	
	ometer is used to measure	
B. Answer ten quest	ions	10x 3 = 30.
1. List the types of	wastes available from various sources	
<ol> <li>Explain the steps</li> <li>Explain the steps</li> <li>Name and list the</li> <li>Write a note on b</li> <li>Name and list the</li> <li>Write a note on p</li> <li>Write a note on c</li> <li>Name and list the</li> <li>What is rendering</li> <li>Define liquefication</li> </ol>	oirpith briquetting uses of by products from rice milling ? Explain the types on	
. Answer SIX question		6X5 = 30
1 Explain the steps in	volved in waste water treatment in oil palm indi	ustry .
2. Explain the steps inv	olved in citric acid production from fruit waste	
	olved in pectin extraction from mango peel	
	on of value added products from mango kernel	

- 5. Explain the steps involved in animal feed production from deoiled cake
- & . Explain the biogas production process from sago industry wastes
- 7. Explain the working of fish meal pelletizer with a neat sketch
- 8 Write a note rice husk pyrolysis
- D. Answer any one question:

1X10 = 10

- 1. Draw the layout of a waste disposal plant of a fruit industry and explain the machinery required
- 2. Explain the steps involved in alcohol production from agricultural wastes.