



Fdsc.3205

KERALA AGRICULTURAL UNIVERSITY
B.Tech. (Food Engg.)
One-Time Re-examination-January-2018
2014 Admission VII Semester

Food Industry Waste Management (2+0)

Marks: 50

Time: 2 hours

(10x1=10)

I Fill in the Blanks

- 1 -----can be extracted from the skin and bones of fish
- 2 The recovery of-----from coconut palm jaggery is 15%
- 3 -----is one of the wastes from mango processing industry.
- 4 Coconut -----is used as a charcoal for baking process.
- 5 Sunflower seed kernel is an effective source of-----
- 6 Husk, broken and bran are the by-products of wheat milling
- 7 Cost is the major factor influencing the feasibility of food waste project.
- 8 No proper treatment of effluent produces pollution
- 9 Distillation is the only process for the production of alcohol.
- 10 Waste from sugar mills is used for cattle feed alone.

II Write Short notes on any FIVE of the following

(5x2=10)

- 1 What is pyrolysis?
- 2 What are the food waste sources available in India?
- 3 List the by-products of wheat milling.
- 4 What is the importance of stabilization in waste utilization?
- 5 Utilization of rice bran in an effective manner?
- 6 Give some examples for tuber crops.
- 7 What are the uses of germs and bran?

III Answer any FIVE of the following.

(5x4=20)

- 1 Write short note on meat industry by-products and waste utilization.
- 2 Summarize about oil extraction process from food waste.
- 3 Write in brief about the waste management in sugar mills.
- 4 Detail the processes for waster utilization from vegetable industries.
- 5 Draw and explain the waste treatment plant.
- 6 Specify any one industry which uses food waste and give a brief note on it.
- 7 Mention the wastes and its utilization from pulse processing industry.

IV Write an essay on any ONE of the following

(1x10=10)

- 1 Explain the thermal and biotechnological applications of rice husk.
- 2 Describe the production of alcohol by distillation method.
