

# KERALA AGRICULTURAL UNIVERSITY

B.Tech. (Food Engg. ) 2014 Admission

VI Semester Final Examination – July - 2017

Cat. No: Fdsc. 3205

Marks: 50

Title: Food Industry Waste Management (2+0)

Time : 2 hours

## I. Match the following:

(10 x 1=10)

- |                         |                     |
|-------------------------|---------------------|
| 1. Fish liver           | Chickpeas           |
| 2. Coconut waste        | Pectin              |
| 3. Rice husk            | Fish oil            |
| 4. Wheat                | Cattle feed         |
| 5. Pulses               | Fuel briquette      |
| 6. Peel of citrus fruit | Pyrolysis           |
| 7. Watermelon seed      | Blood as by-product |
| 8. Oil cakes            | Durum flour         |
| 9. Tuber crops          | Protein content     |
| 10. Meat industry       | Starch              |

## II. Write short notes on ANY FIVE:

(5x 2=10)

1. What is gasification of rice husk?
2. Mention any four sources for food waste.
3. List the by-products of pulse milling.
4. What is defatted bran?
5. What do you know about effluent safe disposal?
6. What are the steps in cement preparation from rice husk?
7. Give some biotechnological uses of rice husk.

## III Write answers on ANY FIVE:

(5 x 4=20)

1. Write short note on fish industry by-product and waste utilization.
2. Summarize the concept of waste recycling plant.
3. What are the factors to be considered for preparing feasibility report for waste utilization?
4. Give a brief note on fuel briquette.
5. How to recycle a waste from poultry processing industry?
6. Share your views on waste from tuber crops.
7. Write a short note on waste management in sugar mills.

## IV. Write essay on any ONE

(1 x 10=10)

1. Explain the processing steps of coconut and its waste utilization.
2. Describe the production of citric acid from fruit waste.

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