

# KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food . Engg) Degree Programme 2013 Admission

VI<sup>th</sup> Semester Final Examination- June - 2016

Cat. No: Fdsc . 3205

Marks: 50.00

Title: Food Industry Waste Management (2+0)

Time: 2 hours

## I Fill up the blanks

(10 x 1 =10)

1. Pyrolysis of cellulose occurs at \_\_\_\_\_ temperature in air.
2. \_\_\_\_\_ present in biomass act as self binder while heating.
3. The bed temperature in fluidized bed gasifier is \_\_\_\_\_.
4. An example for binding material used in briquetting is \_\_\_\_\_.
5. Optimum CN ratio for biogas production is \_\_\_\_\_.
6. Boiling point of hexane is \_\_\_\_\_.
7. Name a byproduct obtained during oil refining
8. Calorific value of rice husk briquette is \_\_\_\_\_.
9. The husk content of paddy is \_\_\_\_\_.
10. The bran content of paddy is \_\_\_\_\_.

## II Write short notes ANY FIVE

(5 x 2 =10)

1. Name and list the uses of by products from wheat milling.
2. List the uses of defatted bran.
3. Write a note on dry heat stabilization of rice bran.
4. Differentiate pellets and briquettes.
5. Name and list the uses of by products from meat industries.
6. Name and list the uses of by products from tuber processing.
7. Write a note alcoholic fermentation.

## III. Explain ANY FIVE of the following

(5 x 4 =20)

1. Write a note on effect of food industries wastes on environment.
2. Write a note on utilization of paddy husk.
3. Write a note production of value added products form pulse milling wastes.
4. Write a note on updraft rice husk gasifier.
5. Write a note on wheat germ utilization.
6. Write a note on wet processing of coconut.
7. Write a note on Gibblet processing.

## IV. Write essay on ANY ONE

(1 x 10=10)

1. Explain the coir fibre extraction process and production of useful products from coir fibre and coir pith.
2. Draw the layout of fruit waste utilization plant and prepare a feasibility report.

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