



Fdsc.3206

KERALA AGRICULTURAL UNIVERSITY

B.Tech.(Food Engg) 2016 Admission

VI Semester Final Examination- June 2018

Food Industry Waste Management (2+0)

Marks: 50

Time: 2 hours

(10x1=10)

I Fill up the blanks

- 1 Chemical activation for activated carbon production is preferred over physical activation due to _____ temperature; short time
- 2 Lignocelluloses is composed of hemicellulose, lignin and _____
- 3 In production of particle board from coir pith phenol formaldehyde of _____ % is used.
- 4 _____ is swelling of starch granule in presence of heat and water.
- 5 _____ is process done to produce smooth surface paper.

State whether the following statements are true or false

- 6 Biomass energy is a renewable source.
- 7 Activated carbon has very low degree of micro porosity.
- 8 Rice husk ash contains more than 80% silica.
- 9 Briquetting process with binder material requires high pressure
- 10 Rice bran fraction contains 14-18% oil.

II Write short notes/answers etc on ANY FIVE

(5x2=10)

- 1 Carbonization.
- 2 Pyrolysis.
- 3 Stabilization.
- 4 Molasses number.
- 5 Iodine number.
- 6 Explain BOD.
- 7 Rendering.

III Answer any FIVE of the following.

(5x4=20)

- 1 What are wastes from tuber crops?
- 2 Briquetting technology.
- 3 Pyrolysis and gasification of rice husk.
- 4 Waste utilization from coconut industry.
- 5 Oil extraction from fish waste.
- 6 Utilization of rice bran.
- 7 Effluent treatment plant in fruit industry.

IV Answer any ONE of the following

(1x10=10)

- 1 Nature and availability of food waste from fruits and vegetable industry.
- 2 By-product utilization from meat and poultry industries.
