

**Reg. No:**

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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech III Year II Semester Regular & Supplementary Examinations October-2020**  
**AGRO INDUSTRY AND BI-PRODUCT UTILIZATION**

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- 1 a Define agro industries and what are the factors responsible for establishment? **6M**  
 b What are the characteristics of rice husk? **3M**  
 c Write the uses of amorphous silica and what are the different grades of silicon? **3M**

**OR**

- 2 a Write about the production of furfural through RRL process. **8M**  
 b Explain about the edible copra. **4M**

**UNIT-II**

- 3 a Write about the coconut shell product. **9M**  
 b Write about the harvesting of cashew nuts. **3M**

**OR**

- 4 Explain about the cashew products. **12M**

**UNIT-III**

- 5 a Explain about the manufacture of pulp. **7M**  
 b Briefly explain about the digestion of wood chips to pulp and washing of pulp. **5M**

**OR**

- 6 a Write about the classification of feeds. **3M**  
 b Briefly explain the feed manufacturing process. **9M**

**UNIT-IV**

- 7 a Write about the waste management system selection. **6M**  
 b Write about the waste management system principles. **6M**

**OR**

- 8 Explain about the components of waste collection system. **12M**

**UNIT-V**

- 9 Explain about anaerobic decomposition. **12M**

**OR**

- 10 Explain about the briquettes processing. **12M**

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