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

B.Tech III Year I Semester Supplementary Examinations August-2021

AGRICULTURAL PROCESS ENGINEERING

(Agricultural Engineering)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Explains Jaw crusher functioning with neat sketch. 8M
b Write about serrated crusher with neat sketch. 4M

OR

- 2 a Explain working principle of Ball mill with neat sketch. 6M
b Explain the roll crushers with neat sketch. 6M

UNIT-II

- 3 a Derive a general expression for the terminal velocity. 8M
b Differences between frictional drag and profile drag. 4M

OR

- 4 a Explain Tumbling Mixers with neat sketch. 9M
b List out equipment's of dry powder mixers. 3M

UNIT-III

- 5 a Explain working principle specific gravity separator. 8M
b Write adjustments of specific gravity separator 4M

OR

- 6 a Explain rotary air screen cleaner with neat sketch. 9M
b Explain hysteresis curve. 3M

UNIT-IV

- 7 a Write about drying curves. 4M
b Explain working principle of LSU dryer with neat sketch. 8M

OR

- 8 a Explain vertical whitening cone with neat sketch. 6M
b Write effect of parboiling on nutritional qualities. 6M

UNIT-V

- 9 a Explain principle of Bucket elevator with neat sketch. 8M
b Write formulas for capacity of bucket elevator. 4M

OR

- 10 a What is difference between hulling and shelling? 4M
b Explain principle of operation of pneumatic conveyer with neat sketch. 8M

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