

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 What are the principles of seed processing? Draw the lay out and plan of seed processing plant visited by you.
- Q.4 Draw the flow diagram of a flour mill. Briefly explain various unit operation of a flour mill.
- Q.5 What are the different unit operations of pulse milling? Explain the commercial level process of pulse milling.
- Q.6 What is the difference between a cleaner and grader. Explain constructional details and the working principle of an air screen cleaner cum grader.
- Q.7 What is rice mill. List various unit operations of a rice mill. Draw the lay out and flow diagram of rice milling process.

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### 5th Sem. / Agricultural Technology

#### Subject : Agro Process Engg.

Time : 3 Hrs.

M.M. : 100

**Note:** 1. Be brief and to the point.

2. Try to illustrate with examples and sketches.

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Gelatinization.  
b) Seed Delinting.  
c) Soaking.  
d) Sorting.  
e) Sterilization.  
f) Pasteurization.  
g) Pneumatic separation.  
h) Endosperm.  
i) Peeling.

- j) Pelleting.
- k) Aspiration & suction.
- l) Blanching.
- m) Filtration.
- n) Dehusking.
- o) Densification of straw.
- p) Drying of seeds.
- q) Conveying and elevating.
- r) Lint and Fuzz.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Explain the process of calibration of a seed treater.
  - ii) What is the need of densification of straw?
  - iii) What are the basic problems of the pulse industry.
  - iv) Name various material handling machines used in agro processing industries with their specific use.

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- v) Describe the working principle and operation of magnetic separator.
- vi) Explain the kisan continuous method of paddy parboiling.
- vii) List the by products of rice industry and their utilization.
- viii) What is jaw crusher? Explain its working principle.
- ix) What is jet pearler? Explain its working in brief.
- x) Explain the solvent extraction process in brief.
- xi) What are the various steps in processing of seeds.
- xii) Explain the principle and working of indented cylinders.
- xiii) What are the machine parameters that affect pulse milling output.
- xiv) What is the need of seed delinting.
- xv) Describe the working of attrition mill.

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