Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_

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**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **14FP2025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **CEREALS AND PULSES TECHNOLOGY** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q.**  **No.** | **Sub**  **Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Explain the structure and composition of paddy and wheat. | CO1 | 8 |
| b. | Discuss the principle and working of LSU dryer. | CO1 | 12 |
| **(OR)** | | | | |
| 2. | a. | Write a note on theory of drying and drying characteristic curves. | CO1 | 8 |
| b. | Define parboiling and explain parboiling method used in modern rice mill. | CO1 | 12 |
|  |  |  |  |  |
| 3. | a. | Demonstrate equipments used in modern rice mill with flow chart. | CO1 | 12 |
| b. | Write a note on by-products utilization of rice mill industry. | CO1 | 8 |
| **(OR)** | | | | |
| 4. | a. | Discuss the principle and working of rubber roll sheller. | CO1 | 10 |
| b. | Define degree of polish and explain working of vertical cone polisher. | CO1 | 10 |
|  |  |  |  |  |
| 5. | a. | Write a detailed note on mini dhal mill. | CO2 | 10 |
| b. | Explain with flow chart wet milling of pulses. | CO2 | 10 |
| **(OR)** | | | | |
| 6. | a. | Explain the structure, composition and nutritive value of pulses. | CO2 | 8 |
| b. | Discuss with flow chart dry milling of pulses. | CO2 | 12 |
|  |  |  |  |  |
| 7. | a. | Differentiate shallow bin and deep bin. | CO3 | 5 |
| b. | Derive an expression to find lateral pressure in storage bin using Janssen theory. | CO3 | 15 |
| **(OR)** | | | | |
| 8. | a. | Explain in detail about Morai and Bukari type storage structures. | CO3 | 8 |
| b. | Explain the principle and working of Bucket elevator with neat sketch. | CO3 | 12 |
|  |  | **Compulsory:** |  |  |
| 9. | a. | Write a note on products of corn milling. | CO2 | 8 |
| b. | Demonstrate dry milling of maize with the help of flow chart. | CO2 | 12 |