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



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **14FP2025** | **Duration :** | **3hrs** |
| **Sub. Name :** | **Cereal 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 importance and methods of grain drying. | CO1 | 5 |
| b. | Briefly explain the construction and working of LSU dryer with neat diagram. | CO1 | 15 |
| (OR) | | | | |
| 2. | a. | Discuss in detail various traditional and modern methods of parboiling. | CO1 | 5 |
| b. | Write a note on physic-chemical changes associated with paddy parboiling. | CO1 | 15 |
| 3. | a. | Expalin in detail the construction and working of Engelburg huller with neat sketch. | CO2 | 15 |
|  | b. | Brief about various pre-cleaners used in paddy milling. | CO1 | 5 |
| (OR) | | | | |
| 4. | a. | Explain in detail various milling operations with machinery involved in hulling with neat labeled diagram. | CO2 | 15 |
|  | b. | Explain the importance of whitening process in milling of rice. | CO2 | 5 |
| 5. | a. | Write the process involved in manufacture of glucose syrup and its application in food industry. | CO2 | 15 |
|  | b. | Short note on TVP. | CO2 | 5 |
| (OR) | | | | |
| 6. |  | Illustrate the process of oil extraction of corn using soxhlet apparatus with neat labeled diagram. | CO2 | 20 |
| 7. | a. | Explian the anatomy of corn kernel with labeled diagram. | CO2 | 5 |
|  | b. | Ellaborate on dry milling and wet milling of corn with flowchart. | CO2 | 15 |
| (OR) | | | | |
| 8. | a. | Describe about various traditional storage structure for cereal grains with neat labeled diagram. | CO3 | 20 |
|  | | **Compulsory:** |  |  |
| 9. | a. | Mention the various factors considered in design of a silo. | CO3 | 5 |
|  | b. | Explain in detail various pressure distribution theories considered while designing a storage silo. | CO3 | 15 |

ALL THE BEST