

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Regular and Supplementary Examination December 2020

Course Code: FT301**Course Name: CEREALS & LEGUME TECHNOLOGY**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer any two full questions, each carries 15 marks.*

- | | | Marks |
|---|--|-------|
| 1 | a) Describe the current scenario of cereals and legume in India. | (7) |
| | b) Write in detail about breakfast cereals and gun puffed cereals. | (8) |
| 2 | a) What is parboiling of paddy and explain any two traditional parboiling methods | (7) |
| | b) Describe on extruded products of cereals. | (8) |
| 3 | a) What are the unit operations involved in the milling of rice? Explain the Japanese paddy separator. | (7.5) |
| | b) Write a note on rice varieties and nutrient composition of rice. | (7.5) |

PART B*Answer any two full questions, each carries 15 marks.*

- | | | |
|---|---|-------|
| 4 | a) Describe the functions of equipments used in milling of wheat. | (10) |
| | b) Compare the nutrient composition of barley and millets. | (5) |
| 5 | a) Elucidate the acid hydrolysis of starch in corn processing. | (8) |
| | b) What is HFCS? Compare HFCS with sugar. | (7) |
| 6 | a) Describe the various germination compartments used in the malting process of barley. | (7.5) |
| | b) Describe the processing of oats. | (7.5) |

PART C*Answer any two full questions, each carries 20 marks.*

- | | | |
|---|--|------|
| 7 | a) What are difficult to mill pulses? Describe the processing of any two difficult to mill pulses. | (8) |
| | b) Describe the unit operations involved in soya bean processing. | (12) |
| 8 | a) Describe the types of silos used in grain industry. | (10) |
| | b) Detail the factors affecting the flowability of grains in storage system. | (10) |
| 9 | a) Elucidate the unit operation involved in the commercial hulling of grains. | (10) |
| | b) Elucidate the bag and CAP (cover and plinth) storage of grains. | (10) |
