

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Examination (Regular and Supplementary), December 2020

Course Code: FT403**Course Name: BY-PRODUCT UTILIZATION IN FOOD INDUSTRY**

Max. Marks: 100

Duration: 3 Hours

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

Marks

- 1 a) Explain in detail about the importance and extraction process of rice bran oil. (8)
- b) Explain about the major and minor waste obtained from sugar mill and their utilization pattern. (7)
- 2 a) Explain the importance of waste valorisation and management. Write a note on the major classification of waste? (7)
- b) Explain in detail the utilization of waste from vegetable processing unit. (8)
- 3 a) What are the two objectives of waste management? Explain about the by-products of industrial application from major processing sectors. (8)
- b) List out the major waste obtained from a fruit processing unit? Explain the major applications of these by products. (7)

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

- 4 a) Give a detailed description on fish meal production and the steps in the production process. (8)
- b) Explain about the major wastes from wheat milling unit and their utilization pattern. (7)
- 5 a) Explain about the properties and production of fish liver oil from by products from fish processing industry. (7)
- b) Explain about the utilization pattern of by products from coconut processing unit. (8)
- 6 a) Explain about production of three major non-food items from fish processing wastes. (8)
- b) What are the major by products from pulse milling unit? Explain about the areas of utilization of these by products? (7)

PART C

Answer any two full questions, each carries 20 marks.

- 7 a) Explain the utilization pattern of waste obtained from tuber crop processing unit. (10)
b) What is the importance of effluent treatment plant in food industry? Analyse and elaborate. (10)
- 8 a) Why is the safe disposal of effluent important? What are the common methods in the treatment of the same? (10)
b) What are the food and non-food applications of waste obtained from coconut processing unit? (10)
- 9 a) List out the major methods in effluent treatment? Explain the process in detail? (10)
b) Explain about the effective utilization of waste obtained from banana processing unit? (10)
