

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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

Course Code: : FT409**Course Name: FOOD PACKAGING TECHNOLOGY**

Max. Marks: 100

Duration: 3 Hours

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

Marks

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|---|--|-------|
| 1 | a) Write down the levels of packaging with suitable examples. | (7.5) |
| | b) Explain the packaging requirements for cereal based products. | (7.5) |
| 2 | Explain the manufacturing process of paper with flow chart. | (15) |
| 3 | a) Explain the extrusion techniques in plastic film manufacturing. | (7.5) |
| | b) List out the advantages & disadvantages of paper as a packaging material. | (5) |
| | c) What is the definition of packaging given by CAC? | (2.5) |

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

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| 4 | a) Explain the blow and blow process in glass manufacturing. | (5) |
| | b) Explain the surface treatment methods in glass manufacturing | (5) |
| | c) Why beer is preferably packed in glass bottles? | (5) |
| 5 | a) Write a note on protective coatings on can containers. | (10) |
| | b) Write a short note on vacuum packaging. | (5) |
| 6 | a) Give a detailed note on MAP. | (7.5) |
| | b) Write a short note on shrink packaging | (2.5) |
| | c) Explain the tin plating methods. | (5) |

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

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| 7 | a) Explain GTR & how do we determine GTR? | (10) |
| | b) What are the factors to be considered while designing a packaging for dairy products? | (5) |
| | c) Write a short note on tear strength. | (5) |
| 8 | a) What is RFID? | (5) |
| | b) Write a note on environmental effects of plastic pollution. | (5) |
| | c) What are the factors affecting product shelf life and quality? | (10) |
| 9 | a) How do you evaluate package performance? | (10) |
| | b) Give a note on migration in packaging materials. | (3.5) |
| | c) How do you determine puncture resistance? | (4.5) |
| | d) What is permeability coefficient? | (2) |
