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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

FIFTH SEMESTER B.TECH DEGREE EXAMINATION(R&S), DECEMBER 2019

Course Code: FT303

Course Name: UNIT OPERATIONS IN FOOD PROCESSING

Max. Marks: 100 Duration: 3 Hours

PART A Answer any two full questions, each carries 15 marks. Marks 1 a) Define mixing index (5) b) With neat sketch explain different types of mixers used for pastes and plastics (10)2 a) What is the function of filter aid (5) b) Compare the time required for constant rate and constant pressure filtration (10)3 a) Explain fluidization (7.5)b) Explain working of plate and frame filter press (7.5)PART B Answer any two full questions, each carries 15 marks. 4 Write short note on Reverse osmosis, pervaporisation and electro dialysis (15)a) 5 a) Classify multiple effect evaporator according to the feed supply (15)6 What are the factors affecting reverse osmosis (7.5)a) b) Draw a neat sketch of vapour recompression evaporator and explain its working (7.5)PART C Answer any two full questions, each carries 20 marks. 7 a) Explain the extractors mixer settler and perforated tray tower (15)b) Explain breakthrough curve in adsorption (5) 8 a) Write short note on saturation ,super saturation ,solubility curve and methods of (20)super saturation 9 Write briefly about adsorption isotherm (10)b) Discuss different types of crystals (10)
