# B.E (FTBE) THIRD YEAR, FIRST SEMESTER SUPPLMENTARY EXAMINATION 2018

## FOOD PROCESS TECHNOLOGY -II

Time: 3 hrs Full Marks: 100

Use separate Answerscript for each part

(50 marks for each part)

## PART - I (50 MARKS)

Answer Q1 and Any Two from the rest		
Q1. F	ill in the blanks:	$10 \times 1 = 10$
a.	Temperature of formation of trans fatty acids is	
	Earthy odor of oils are due to	
C.	constitute the hydrophilic core in reverse mic processing.	
d	. A large number of contact stages are needed if flakes/solvent ratio is	
e.	is an example of a hard oil.	
f.		
g		
h	. Palm stearin can be separated from palm olein by the process of	
i.		
j.	Deodorized oils have% FFA.	20
a. b.	Horizontal moving basket extractor vs. Vertical moving basket extractor Disc huller vs. Bar huller Pre-bleaching vs. Post-bleaching	4 × 5 = 20
	CBS vs. CBR speciality fats	3
	Yield of oil and cake from groundnuts (48% oil and 5% moisture) pressed to in cake (7% moisture) considering moisture loss vs. considering no moisture	
Q3. Ex	splain the working principle of (any four)	$4\times 5=20$
a.	De-Smet extractor	
b.	Oilseed cooker	
c.	Heat exchanger in shortening manufacture	
d.	Expeller press	
e.	Picker unit	

[Turn over

## Q4. Write short notes on (any four):

 $4 \times 5 = 20$ 

- a. Lecithin recovery from soybean
- b. Disadvantages of chemical refining

- c. Acid-water degumming
  d. Pervaporation for IPAWA dehydration
  e. Process that produces new fats without altering its degree of saturation

#### Ex/FTBE/T/314/2018(S)

## B. FTBE 3<sup>RD</sup> YEAR 1<sup>ST</sup> SEM SUPPLEMENTARY EXAM. 2018

#### Food Process Technology-II

Time: 3 hours

#### PART II (50 Marks)

FM: 100

(Answer question no. 1 and any two of other questions: 10+20x2=50)

- 1. a) how rate of drying changes with the composition of food?
  - b) Discuss working principle of dough ball making machine (any one)?
  - c) What do you mean by angel of repose?
  - d) Discuss the working principle of polisher.

2.5x4=10

2. Determine the values of c & n from the Henderson equation from following data obtained from thin layer paddy drying studies

RH= 35%  $t=60^{\circ}$  C,  $M_e = 12.5\%$ 

RH= 55%  $t=60^{\circ}$  C  $M_e = 17.5$ %

Discuss the Dobhapa methods of parboiling and methods developed by Jadavpur University. 10+10=20

3. Discuss the methods of wet milling process of corn. What is the difference between hullar and sheller rice milling machine discuss with working principle?

10+10=20

4. Discuss the working principle of ferinograph. What are the functions of the different ingredients used for bread making?

10+10=20