## **BITS PILANI, DUBAI CAMPUS**

## **SECOND SEMESTER 2013-2014**

Test - 1 (Closed Book)

**BIOT F424: FOOD BIOTECHNOLOGY** 

Date: 27.02.14(Th8)

Time 50 minutes

Max Marks: 25(Weightage 25%)

Answer all the questions. Marks are mentioned against each question.

Q1a. What are the aims of the food industry today? [2]

- b. What are the different pressures that influence the food processing industry? Give an example of any one product processes under these pressures. [3]
- c. What is the Reynolds number? How is it important in the food industry? [3]
- d. What are the effects of processing on food flavours and aroma? [2]
- e. What is meant by TQM? List the areas covered by TQM. [3]
- Q2a. What are unit operations? Give an example. [2]
- b. Why is it important to understand the viscosity and density of the food in a manufacturing process? [3]
- c. What is the significance of the *D-value* and *z-value*? What are the factors that influence these values? [3]
- d. Explain with examples the different methods of sorting. Mention the equipments that aid these sorting methods. [2]

## **BITS PILANI, DUBAI CAMPUS**

## **SECOND SEMESTER 2013-2014**

Quiz – 2

**BIOT F424: FOOD BIOTECHNOLOGY** 

Date: 11.05.14(Su2)	Time 20 minutes	Max Marks: 7 (Weightage 7%)
1. What is called the dew point to	emperature?	[1]
2. What are the important comp	onent s of fluidized-bed drier?	[0.75]
3. What are the different modes b	by which heat is supplied to the foc	od in an oven? [0.75]

4. During baking, why doesn't the temperature of food exceed 100C?	[1]
5. Though dehydration and baking involve removal of moisture using dry heat, how are they di [1]	fferent?
6. Frying of food takes some time. What are the factors that which determine the time taken b to be completely fried? [1.25]	

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7. How is Ohmic heating different from microwave or radiation heating of foods?

[1.25]