

**POST GRADUATE DIPLOMA IN FOOD  
SCIENCE AND TECHNOLOGY (PGDFT)**

**Term-End Examination**

**June, 2017**

00033

**MFT-010 : TECHNOLOGY OF CEREALS, PULSES  
AND OIL SEEDS**

*Time : 3 hours*

*Maximum Marks : 70*

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- Note :** (i) *Attempt any five questions.*  
(ii) *All questions carry equal marks.*
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| 1. | (a) List different systems used for drying of wheat and explain one in detail.                    | 6 |
|    | (b) Describe the structure of wheat grain with the help of suitable diagram.                      | 4 |
|    | (c) Give a flow chart for Gluten separation for wheat.  | 4 |
| 2  | (a) Why weak flour is suitable for biscuit making and strong flour is suitable for bread making ? | 6 |
|    | (b) Describe the principle and functioning of Viscoamylograph.                                    | 4 |
|    | (c) Write the function of emulsifier and oxidizing agents in wheat products.                      | 4 |
| 3. | (a) Explain the process of manufacturing of instant noodles.                                      | 5 |
|    | (b) What are the important properties of ideal bread packaging ?                                  | 4 |
|    | (c) What are the criteria for rice quality ?  | 5 |

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| 4. | (a) | What is Parboiling ? Describe parboiling method of CFTRI, Mysore.                     | 5 |
|    | (b) | Describe in brief the process of modern Rice Milling.                                 | 5 |
|    | (c) | Define Rheology. List the instruments used to determine dough rheological properties. | 4 |
| 5. | (a) | Explain the structure of corn with help of diagram.                                   | 5 |
|    | (b) | List the three important processes dry corn millers use for commercial purposes.      | 3 |
|    | (c) | What is Malting ? Describe the malting process with the help of neat flow diagram.    | 6 |
| 6. | (a) | Discuss dietary importance of millets.  | 4 |
|    | (b) | Explain the importance of Pulses for vegetarian Indian population.                    | 4 |
|    | (c) | Explain anti-nutritional and toxic factors of pulses.                                 | 6 |
| 7. | (a) | Explain the process of oil seed extraction with the help of flow diagram.             | 7 |
|    | (b) | Discuss the traits of a good entrepreneur.  | 7 |
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