Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov/Dec – 2017**

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|  |  |  |  |
| **Code :** | **14FP2026** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PLANTATION PRODUCTS AND SPICES TECHNOLOGY** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Elaborate on the steps involved in Instant coffee production | CO1 | 10 |
| b. | What is Decaffeination? Explain the steps involved in the process of decaffeination of coffee. | CO2 | 10 |
| (OR) | | | | |
| 2. | a. | Explain the roasting process, equipments used and changes during roasting of coffee in detail. | CO3 | 20 |
|  |  |  |  |
| 3. | a. | With a neat flow chart, describe the manufacturing stages of Chinese green tea in detail | CO2 | 20 |
| (OR) | | | | |
| 4. | a. | Explain the grades and their synonyms for Indian black tea | CO1 | 10 |
|  | b. | Summarize the changes that takes place during withering of green tea leaves | CO1 | 10 |
|  |  |  |  |  |
| 5. | a. | Illustrate the flavor synthesis during chocolate manufacture and mention the importance of quality and defects. | CO3 | 20 |
| (OR) | | | | |
| 6. | a. | Characterize the changes that takes place during fermentation of cocoa bean | CO3 | 10 |
|  | b. | Describe the significance of particle size distribution in chocolate manufacture | CO2 | 10 |
|  |
| 7. | a. | Determine the processing steps involved in primary and secondary products of ginger | CO3 | 20 |
| (OR) | | | | |
| 8. | a. | Describe the post harvest technology and quality specifications of black pepper. | CO2 | 10 |
|  | b. | Explain the quality specifications and chemical composition of turmeric | CO1 | 10 |
|  |  |  |  |  |
|  | | **Compulsory:** |  |  |
| 9. | a. | Illustrate the quality specifications for cumin seeds, powder and oil | CO2 | 10 |
|  | b. | Elaborate on the steps involved in the garlic dehydration process with flowchart | CO2 | 10 |

ALL THE BEST