

**B.Tech Odd Semester (CBCS) Exam.,  
December—2018**

**AGRICULTURAL ENGINEERING**

**( 7th Semester )**

Course No. : AEEL-02

**( Tea Technology )**

*Full Marks : 50*

*Pass Marks : 15*

*Time : 2 hours*

*Note :* 1. Answer any **five** questions.

2. Begin each answer in a new page.

3. Answer parts of a question at a place.

4. Assume reasonable data wherever required.

5. The figures in the margin indicate full marks for the questions.

1. (a) Describe endless chain pressure drying of tea leaves with the help of a neat figure. 5
- (b) Discuss in brief the various methods of tea waste disposal. 5

2. (a) Enlist the different types of withering system. Differentiate between enclosed and open withering toughs. 5
- (b) What are the different types of planting? Explain. 5
3. (a) What are the factors that influence the fermentation of the ruptured tea leaves? 3
- (b) With the help of a neat figure, describe the development of the quality characteristics of tea during fermentation. 7
4. (a) Explain vibro-fluidized bed drying of tea leaves with the help of a neat figure. 5
- (b) Discuss the importance of shade tree in tea garden. What are the factors to be considered while selecting the shade tree species? 5
5. (a) Describe the agro-climatic conditions required for growing of tea. 5
- (b) What are the methods of irrigation in tea garden? Discuss in brief the methods of determination of irrigation requirement. 5

6. (a) Describe physico-chemical changes occurred during withering of tea leaves. 5  
(b) Explain in brief the different types of tea waste. 5
7. (a) Compare mechanical and manual pluckings of tea leaves. 5  
(b) Discuss human resource management components and activities. 5
8. (a) What is forecasting? Explain in brief the types of forecasting method. 5  
(b) Enlist the objectives of tea plant pruning. What are the different types of pruning? 5

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