



End Semester Examination December 2009/ January 2010
Year II Semester I

Tea Chemistry TEA 232-2

Instructions

Answer **all** questions

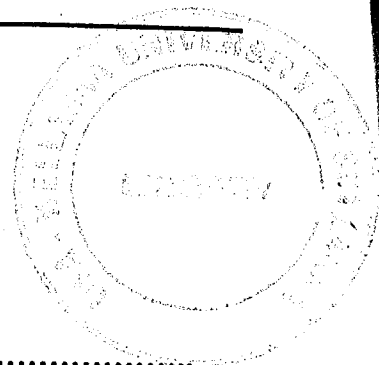
No. of questions : Two (02)

No. of pages : One (01)

Total marks allocated : 50%

Time : One hour (1hr)

Index No:



Part II

Question 1

- I. Discuss why it is necessary to take tender shoots instead of mature shoots for the tea manufacturing process.
- II. Describe the differences between the primary metabolites and secondary metabolites.
- III. Discuss how different types of secondary metabolites in tea plants are important to the tea ecology and to the brew?

Question 2

- I. What are the major chemical compounds in tea (tender leaves) and their approximate chemical composition?
- II. Draw the basic structure of catechin.
- III. Describe the major chemical changes that take place during the following black tea manufacturing process
 - a. Withering
 - b. Rolling
 - c. Fermentation (oxidation)
 - d. Drying
- IV. How does green tea manufacturing process and chemical composition differ from the above process?