



THE OPEN UNIVERSITY OF SRI LANKA  
 B.Sc./ B.Ed. DEGREE PROGRAMME-LEVEL 05  
 FINAL EXAMINATION 2009/2010  
 BOTANY  
 BTU 3104/BTE 3104 – PLANTS AND MAN  
 DURATION : TWO AND A HALF HOURS (2 ½ hrs.)

DATE : 11<sup>th</sup> Jan. 2010

TIME : 1.00 p.m. – 3.30 p.m.

Answer any four (04) of the following questions.

01. "Graminae (Poaceae) is economically the most important family of flowering plants"  
 Comment on this statement.
02. Write briefly on the following.
  - a) Fruit Vegetables
  - b) Essential oils
03. Name three (03) plants grown on a commercial scale to prepare non-alcoholic beverages containing caffeine. Describe the botanical features of the plant, its cultivation and the manufacture of the product from it that is used in the preparation of the world's most popular caffeine containing non-alcoholic beverage.
04.
  - a. What are plant fibers?
  - b. What is the basis on which commercially important fibres are separated into different groups? Give two examples for each group you stated.
  - c. Write an account of the world's most important natural fibre. Your answer should include botanical features of the plant producing the fibre, harvesting of the crop, extraction of fibre and its uses.
05. Discuss the economic importance of the following plants.
  - a) *Saccharum officinarum* L.
  - b) *Hevea braziliensis* (A. Juss.) Muell. Arg.
  - c) *Myristica fragrans* Houtt.
  - d) *Glycine max* (L.) Merr.
  - e) *Vitis vinifera* L.
06.
  - a) What is wood?
  - b) Briefly describe the important qualities of wood.
  - c) What are the main uses of wood?
  - d) Name five (05) plants commonly used for timber in Sri Lanka.

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