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00330

**The Open University of Sri Lanka**  
**Faculty of Natural Sciences**  
**B.Sc/ B. Ed Degree Programme**



<b>Department</b>	<b>: Botany</b>
<b>Level</b>	<b>: Five (05)</b>
<b>Name of the Examination</b>	<b>: Final Examination</b>
<b>Course Title and - Code</b>	<b>: Plants and Man - BYU5303 / BYE5303</b>
<b>Academic Year</b>	<b>: 2020/2021</b>
<b>Date</b>	<b>: 17<sup>th</sup> December 2021</b>
<b>Time</b>	<b>: 2.00 pm – 4.00 pm</b>
<b>Duration</b>	<b>: Two (02) Hours</b>

**General Instructions**

1. Read all instructions carefully before answering the questions.
  2. This question paper consists of **six (06)** questions in **two (02)** pages.
  3. Answer any **four (04)** questions only. All questions carry equal marks.
  4. Answer for each question should commence from a new page.
  5. Draw fully labelled diagrams where necessary
  6. Involvement in any activity that is considered as an exam offense will lead to punishment
  7. Use blue or black ink to answer the questions.
  8. Clearly state your index number in your answer script
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Answer any four (04) questions only. All questions carry equal marks.

1. Citing examples with botanical names, write an essay on the economic importance of the family Solanaceae.
  
2. a. Explain why the cereals, compared to other crops, were domesticated as a major starch source in the early civilizations.  
b. Briefly describe the practices of cultivating, harvesting and storing of a major cereal in ancient Sri Lanka.
  
3. a. What is meant by “non-alcoholic” beverages?  
b. Describe the major steps involve in the production of black tea and explain the chemical / physical processes taken place during each step.
  
4. Briefly discuss **any two (02)** of the followings.
  - a. Sources of plants in western medicine.
  - b. Essential oils and their importance and, method of extraction.
  - c. Ripening of fruits.
  
5. Describe concisely the economic importance of following plants stating the plant family and the part/s from which the commercial products are obtaining.
  - a. *Elaeis guineensis* Jacq.
  - b. *Beta vulgaris* L.
  - c. *Hevea brasiliensis* Müll. Arg.
  - d. *Triticum aestivum* L.
  
6. Write short notes on **any two (02)** of the followings.
  - a. Spices of economic importance.
  - b. Criteria used in the classification of vegetable oils.
  - c. Under-utilized beverage plant in Sri Lanka.

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