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



Department

: Botany

Level

: 05

Name of the Examination

: B.Sc. Degree Programe-Final Examination

Course Title and - Code

: Postharvest Technology of Fresh Produce

BYU5308/BYE5308

Academic Year

: 2020/2021

Date

: 29th March 2022

Time

: 9.30 a.m. - 11.30 a.m.

Duration

: 2 hours

General Instructions

- 1. Read all instructions carefully before answering the questions.
- 2. This question paper consists of 06 questions in 02 pages.
- 3. Answer any 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

- 1. (a) Postharvest losses of fresh produce are a major problem in the postharvest chain.

 List the major causes of postharvest losses of fresh produce.
 - (b) Briefly describe how the environmental factors lead to postharvest losses of fresh Produce.
 - (c) What are the advantages of reducing postharvest loss?
- 2. 'A variety of preharvest treatments are applied to horticultural crops to maintain quality, reduce disease severity and lengthen the storage life of fresh produce' Discuss this statement.
- 3. (a) Describe the factors that users should pay attention to when fresh produce is transported in road vehicles.
 - (b) List the disadvantages of rail transport
 - (c) Give reasons for high cost and heavy losses in air freight
- 4. (a) What is meant by "packing house operations"?
 - (b) What are the advantages of sorting and grading of fresh produce?
 - (c) Explain "curing" and "wax coating" which are specialized treatments applied to certain fresh produce to maintain quality.
- 5. Discuss the following:
 - (a) Use of recombinant DNA technology to enhance postharvest longevity of fresh produce
 - (b) Ethylene has become a useful tool in commercial fruit ripening due to its stimulatory activity on fruit ripening

- 6. Write short notes on the following:
 - (a) Chemical characteristics that are used to determine the maturity of fresh produce
 - (b) Quality assurance procedures maintained during handling of fresh produce

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