

නව/පැරණි නිර්දේශය - புதிய/பழைய பாடத்திட்டம் - New/Old Syllabus

NEW/OLD

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2020
 கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2020
 General Certificate of Education (Adv. Level) Examination, 2020

ආහාර තාක්ෂණවේදය II
 உணவுத் தொழினுட்பவியல் II
 Food Technology II

17 E II

පැය තුනයි
 மூன்று மணித்தியாலம்
 Three hours

අමතර කියවීමේ කාලය - මිනිත්තු 10 යි
 மேலதிக வாசிப்பு நேரம் - 10 நிமிடங்கள்
 Additional Reading Time - 10 minutes

Use additional reading time to go through the question paper, select the questions you will answer and decide which of them you will prioritise.

Index No. :

Instructions:

- * This question paper consists of 10 questions in 08 pages.
- * This question paper comprises of Parts A, B and C.
 The time allotted for all three parts is three hours.

Part A - Structured Essay (2 - 7 pages)

- * Answer all questions on this paper itself.
- * Write your answers in the space provided for each question. Please note that the space provided is sufficient for your answers and extensive answers are not expected.

Part B and C - Essay : (page No. 8)

- * Select two questions from each of the Parts B and C and answer four questions only. Use the papers supplied for this purpose.
- * At the end of the time allotted for this paper, tie the three parts together so that Part A is on the top of Parts B and C before handing over to the supervisor.
- * You are permitted to remove only Parts B and C of the question paper from the Examination Hall.

For Examiner's Use only

Part	Question No.	Marks
A	1	
	2	
	3	
	4	
B	5	
	6	
	7	
C	8	
	9	
	10	
Total		

Total

In Numbers	
In Letters	

Code Numbers

Marking Examiner 1.	
Marking Examiner 2.	
Marks Checked by	
Supervised by	

Part A - Structured Essay
Answer all questions on this paper itself.
(Each question carries 100 marks.)

Do not
write
in this
column

1. (A) State the **two** controversial concepts that describe how human perceive the interaction among them.

(1)

(2)

(B) State a method each to control pollution from following activities.

(1) Particulate emission due to burning diesel in agricultural tractors:

.....

.....

(2) Runoff of excess nutrients from farmlands to surface water:

.....

.....

(C) State **two** advantages of providing a balanced diet to school children.

(1)

.....

(2)

.....

(D) Write **two** disadvantages of frequent consumption of fast foods.

(1)

(2)

(E) Spoilage of food could occur due to different reasons. State **one** reason for each of the following food spoilage conditions.

Spoilage condition	Reason
(1) Rancidity
(2) Formation of brown colour of certain cut fruits
(3) Development of sour taste in milk products
(4) Development of black spots on bread slices

(F) Propose **two** ways to achieve household food security.

(1)

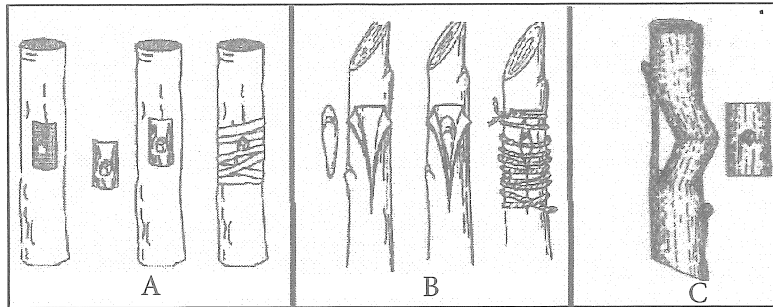
(2)

- (G) Names of species of few commonly used agricultural crops are given below. State a vegetative propagation structure found in each species.

Species	Vegetative propagation structure
(1) <i>Centella asiatica</i>
(2) <i>Solnaum tuberosum</i>

Do not
write
in this
column

- (H) Name the different methods of budding shown in the diagram given below.



A

B

C

- (I) Write the appropriate propagule and a plant part used as medicine in each of the following medicinal plants.

Medicinal plant	Propagule	A part used for medicine
(1) Aratta	(1).....
(2) Lunuwila	(2).....
(3) Ginger	(3).....

Q. 1

100

- 2.(A) (1) Name months in the year in which the highest rainfall is expected by the farmers in the Dry Zone of Sri Lanka.

.....

- (2) Name an instrument that is used to measure the speed of the wind.

.....

- (3) List two factors to be considered in establishing a rain gauge in a meteorological station.

(i)

(ii)

- (B) Write one example each for the brackish and salt water ecosystems.

Ecosystem

Example

Brackish water ecosystem

Salt water ecosystem

Do not
write
in this
column

(C) State **four** methods to minimize post-harvest losses in vegetables.

- (1)
- (2)
- (3)
- (4)

(D) List **two** examples for traditional biotechnological techniques used in agriculture.

- (1)
- (2)

(E) List **two** good characteristics of a successful entrepreneur.

- (1)
- (2)

(F) Following are few incidences that happened to a business involved in producing herbal tea. State whether they are changes occurred in the internal environment or external environment of the business.

(1) Drop in production due to low supply of raw materials.

.....

(2) Reduction in quality of tea due to errors in the production process.

.....

(G) State **two** reasons for preparing a market plan before starting a food production business.

- (1)
- (2)

(H) State **two** components of a cash flow statement.

- (1)
- (2)

(I) State **three** risks associated with using soft technology.

- (1)
- (2)
- (3)

(J) Pile method and pit method are the widely used composting methods. Name **two** other methods of composting practiced in Sri Lanka.

(1)

(2)

Do not
write
in this
column

Q. 2

100

3. (A) State **two** traditional food technologies.

(1)

(2)

(B) Name **two** major nutrient deficiencies of human that can be seen in Sri Lanka.

(1)

(2)

(C) List **four** benefits of quality assurance of a food material.

(1)

(2)

(3)

(4)

(D) State **two** national institutes that can share information on formulation of fruits and vegetable products.

(1)

(2)

(E) State **two** adverse impacts of the consumption of street food on human health.

(1)

(2)

(F) (1) State **three** advantages of diversification of food.

(i)

(ii)

(iii)

(2) Provide **two** examples for diversified food products of pineapple.

(i)

(ii)

Do not
write
in this
column

(G) Rice flour and pepper mixed confectionery items are commonly consumed in Sripada pilgrimage. State **two** scientific objectives of the consumption of the above mentioned confectionery items at Sripada.

(1)

(2)

(H) Write **one** advantage of employing osmotic dehydration in food processing and provide one example for such food product.

(1) Advantage

(2) Example

(I) State **two** major refining processes available for coconut oil.

(1)

(2)

(J) Name **two** types of essential oils.

(1)

(2)

Q. 3

100

4. (A) (1) Write **two** physico-chemical changes that take place in rice grains during parboiling.

(i)

(ii)

(2) State **two** parameters that can be used in classifying rice types available in the market.

(i)

(ii)

(B) (1) Write **three** nutritional advantages of consuming bean sprout over un-sprouted bean seed.

(i)

(ii)

(iii)

(2) State an advantage of using soya as one of the ingredients in a morning grain mix.

.....

(3) Name **two** soya based food products available in the market.

(i)

(ii)

Do not
write
in this
column

(C) (1) Write an advantage of adding antioxidants into processed food.

.....

(2) State the role of natural dietary antioxidants in the human body.

.....

(3) Write **one** example each for water soluble and fat soluble natural antioxidants present in food.

water soluble antioxidant

fat soluble antioxidant

(D) State **four** factors that should be considered when selecting a container for canned food production.

(1)

(2)

(3)

(4)

(E) (1) State **three** external characteristics to identify the freshness of fish.

(i)

(ii)

(iii)

(2) Name **two** methods of dehydration of fish.

(i)

(ii)

(F) State **two** major differences between yoghurt and ice cream.

(1)

(2)

Q. 4

100

* *