සියලු ම හිමිකම් ඇවිරිණි / முழுப் பதிப்புநிமையுடையது / All Rights Reserved]

නව/පැරණි නිර්දේශය – பුதிய/பழைய பாடத்திட்டம் – New/Old Syllabus

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g වහාග දෙපාර්ත**ි ැපින්නාවිරාවල දෙපාර්තමේන්තුව**ගත දෙපාර්තමේන්තුව දී ලංකා විභාග දෙපාර්තමේන්තුව இலங்கைப் புடி வந்த திலைக்களும் இலங்கைப் பிட்சைத் திணைக்களும் இலங்கைப் பிட்சைத் திணைக்களும் Department of **இலங்கைப் IS/ பி**ப்ப**ைத்** மு**திலைகைகளும்**, Sri Lanka Department of Examinations, Sri Lanka திலை දෙපාර්තමේන්තුව දී අතර පිහුදු අධ්රක්ෂ්ඨ සිදු කිරීම ප්රතිශ්ණ සිදු දේපාර්තමේන්තුව දී ලංකා විභාග දෙපාර්තමේන්තුව இலங்கைப் பிட்சைத் திணைக்களும்

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

ආහාර තාක්ෂණඓදය I உணவுத் தொழினுட்பவியல் I Food Technology I



පැය දෙකයි இரண்டு மணித்தியாலம் Two hours

Instructions:

- * Answer all questions.
- * Write your Index Number in the space provided in the answer sheet.
- * Instructions are given on the back of the answer sheet. Follow those carefully.
- * In each of the questions 1 to 50, pick one of the alternatives from (1), (2), (3), (4), (5) which is correct or most appropriate and mark your response on the answer sheet with a cross (x) on the number of the correct option in accordance with the instructions given on the back of the answer sheet.
- 1. The major field of soft technology is
 - (1) Nanotechnology.

- (2) Biotechnology.
- (3) Industrial technology.
- (4) Food technology.
- (5) Information technology.
- 2. The major atmospheric pollutant that is generated from agricultural activities is
 - (1) CH₄
- (2) CO₂
- (3) NO₂
- (4) N₂O
- (5) CFC
- 3. The basement of the food pyramid represents the required amount of
 - (1) fat for a balanced diet.
- (2) proteins for a balanced diet.
- (3) vitamins for a balanced diet.
- (4) minerals for a balanced diet.
- (5) carbohydrates for a balanced diet.
- 4. Select the correct formula that is used to calculate the Body Mass Index (BMI) of an individual.
 - (1) BMI = $\frac{\text{Height of a person (cm)}}{[\text{Weight of the person (kg)}]^2}$
 - (2) BMI = $\frac{\text{Height of a person (cm)}}{\text{Weight of the person (kg)}}$
 - (3) BMI = $\frac{\text{Weight of a person (kg)}}{[\text{Height of the person (m)}]^2}$
 - (4) BMI = $\frac{\text{Weight of a person (kg)}}{\text{Height of the person (m)}}$
 - (5) BMI = $\frac{\text{Weight of a person (kg)}}{[\text{Height of the person (cm)}]^2}$
- 5. The macro nutrients in food mainly contribute to
 - (1) prevention from diseases.
- (2) successful reproduction.
- (3) growth and development.
- (4) maintaining a healthy body.
- (5) improve brain function.

A - Oxidation of lipids can be explained as a non-enzymatic process.

Consider the following statements.

	B - Peroxides are the final products generated from lipid oxidation.C - Photo-oxidation of lipid can be controlled by using carotenoids.
	Of the above, the correct statement/s is/are (1) A only. (2) B only. (3) C only. (4) A and B only. (5) A and C only.
'.	The non-organoleptic parameter which can change due to spoilage of food is (1) taste. (2) colour. (3) texture. (4) odour. (5) mineral content.
3.	Food security and food safety are best explained as, (1) accessibility of food with no health hazards and adequate food, respectively. (2) availability of adequate food and food with moderate health hazards, respectively. (3) accessibility for non-hazardous food and adequate food, respectively. (4) availability of nutritious food and its ability to safeguard human health, respectively. (5) availability of adequate food with correct nutrition and no health hazards, respectively.
) .	Consider the following statements. A - Use of cold chain to distribute fruits and vegetables may assure food security at the national level. B - Practice of cold chain may extend the shelf-life of fruits and vegetables. Of the above, (1) Both A and B are correct. (2) A is correct and B is incorrect (3) A is incorrect and B is correct. (4) A is correct and it is further explained by B. (5) B is correct and it is further explained by A.
10.	A farmer transplanted chilli seedlings obtained from a nursery bed and covered them with coconuleaves. The purpose of providing cover for the seedlings after transplanting is to protect them from (1) wind. (2) rain. (3) insects. (4) frost. (5) direct sun light.
11.	The environmental parameter/s, which influence the soil genesis is/are (1) humidity. (2) temperature. (3) rainfall. (4) humidity and temperature. (5) rainfall and temperature.
12.	Consider the following statements. A - Seed dormancy would help seeds to overcome unfavourable conditions. B - Scarification of passion fruit (<i>Passiflora edulis</i>) seeds helps removing seed dormancy. C - Mature viable crop seeds have a dormancy period of more than 2 weeks. Of the above, the correct statement/s is/are (1) A only. (2) B only. (3) C only. (4) A and B only. (5) B and C only.
13.	An advantage of row seeding as a method of field establishment of crop seeds is the (1) facilitation of removing unhealthy seedlings. (2) facilitation of weed control using weeding equipment. (3) ability to provide optimum conditions for seed germination. (4) ability to transplant excess seedlings in the extra spaces available in rows. (5) ability to obtain vigorous seedlings compared to other crop establishment methods.

	- 3 -
14.	Seed purity percentage is a main factor that should be considered in the seed industry. Presence of seeds belonging to the paddy variety Bg358 and the weed <i>Echinochloa crus-galli</i> in a seed lot of the paddy variety Bg360, could be best described as an issue related to (1) physical purity only. (2) genetic purity only. (3) species and physical purity only. (4) genetic and physical purity only. (5) weed and physical purity only.
15.	Kothalahimbutu (<i>Salacia reticulata</i>) is used to treat (1) asthma. (2) chicken-pox. (3) measles. (4) Mumps. (5) diabetes.
16.	Select the medicinal plant that the roots are used for de-coxing mixtures. (1) Bulu (2) Aralu (3) Ginger (4) Nelli (5) Adathoda
17.	From the following, select the most appropriate tool to obtain the economically important harvest of Savandara for medicinal purposes. (1) Knife (2) Pair of Scissors (3) Spoon
	(4) Scraper (5) Crow bar
18.	Select the fish that needs a brackish water environment to complete it's life cycle.
	(1) Snake-head fish (Loola) (2) Cat fish (Magura) (3) Carp
	(4) Tilapia (5) Wekkaya
	The most appropriate example to describe a method of lowering post-harvest losses is (1) making curd from milk. (2) wrapping of papaya fruits using paper during transportation. (3) use of rice bran as an animal feed. (4) feeding of leftover food to domestic animals. (5) application of bio-pesticides to control leafhopper.
20.	The post-harvest losses of fruits and vegetables in Sri Lanka is generally considered to be (1) 5%-10%. (2) 10%-20%. (3) 20%-40%. (4) 40%-60%. (5) 60%-80%.
21.	The foundation unit of a living organism is
	(1) tissue. (2) protein. (3) cell. (4) organelle. (5) nucleic acid.
	A fresh graduate in management studies plans to start a poultry farm. A suitable land and a market with high demand are available for this project, but several companies supply chicken meat for this market. According to the SWOT analysis the strength, weakness, opportunity and threat of this business are (1) suitable land, insufficient training, market and other suppliers, respectively. (2) market, suitable land, insufficient training and other suppliers, respectively. (3) suitable land, management degree, market and insufficient training. (4) other suppliers, management degree, insufficient training and market. (5) market, other suppliers, insufficient training and management degree.
	An example for a production-oriented food based technological entrepreneurship is (1) food catering service. (2) operating a restaurant. (3) operating a dairy cattle farm. (4) operating a yoghurt factory.

(5) selling face masks to get protected from COVID - 19 disease.

- 24. Select the correct statement regarding composting.
 - (1) The C:N ratio declines with the composting of the raw material.
 - (2) The release of CO₂ is more at the end of composting.
 - (3) The C content increases in the pile during composting.
 - (4) There is a continuous increase of temperature of the pile during composting.
 - (5) The moisture content in the compost pile increases at the end of composting.
- 25. Different production processes could be explained using standard symbols. The correct procedure to represent the manufacturing process of set-yoghurt using standard symbols is



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$$(4) \bigcirc \rightarrow \square \rightarrow \triangle \rightarrow \nabla$$

$$(5) \quad \square \longrightarrow \bigcirc \longrightarrow \triangle \longrightarrow \nabla$$

- 26. Consider the following statements.
 - A Use of modern technology always negatively affects the nutrition profile of a food.
 - B Combination of modern and traditional technologies may improve the nutritional profile of a food.
 - C Most of the traditional technologies positively affect the nutrition profile of a food.

Of the above, the correct statement(s) is/are

(1) A only.

(2) B only.

(3) C only.

(4) A and B only.

- (5) B and C only.
- 27. Consider the following statements on antioxidants.
 - A Antioxidants protect food from lipid oxidation.
 - B Dietary antioxidants promote human health.
 - C Vitamin B and vitamin K are natural antioxidants in some foods.
 - D Citrus fruits are rich in natural antioxidants.

Of the above, correct statements are,

(1) A and B only.

- (2) A and C only.
- (3) A, B and C only.

- (4) A, B and D only.
- (5) all A, B, C and D.
- 28. Polyunsaturated fatty acids
 - (1) are abundant in coconut oil.
 - (2) can easily get oxidized.
 - (3) in fish oil are considered essential fatty acids.
 - (4) in food are considered unhealthy.
 - (5) are always higher in animal-based foods compared to plant-based foods.
- 29. Select the option that includes only convenient foods.
 - (1) Jam, canned fish and noodle
 - (2) Cordial, canned fish and noodle
 - (3) Frozen fish, flour mixture for dosai and canned food
 - (4) Minimally processed vegetables, canned food and frozen fish
 - (5) Canned fish, minimally processed fruits and flour mixture for string-hoppers

- 30. Wheat flour is suitable for making bread compared to rice flour because,
 - (1) wheat flour gets fermented by yeast easily compared to rice flour.
 - (2) the quality of gluten in rice flour decreases during fermentation.
 - (3) fiber in rice flour hinders the textural development in bread dough.
 - (4) gluten in wheat flour produces CO₂ to develop the texture of bread.
 - (5) protein in wheat flour entraps CO₂ to volume up the bread dough.
- 31. According to the classification of rice available in the market, red raw nadu rice is
 - (1) an unpolished, parboilled and long grain rice type.
 - (2) a polished, parboilled and medium grain rice type.
 - (3) a polished, unparboilled and long grain rice type.
 - (4) an unpolished, unparboilled and short grain rice type.
 - (5) an unpolished, unparboilled and medium grain rice type.
- 32. The leavening agents used in bread, biscuit and hopper making are
 - (1) sodium bicarbonate, yeast and yeast, respectively.
 - (2) yeast, sodium bicarbonate and yeast, respectively.
 - (3) ammonium bicarbonate, yeast and sodium bicarbonate, respectively.
 - (4) yeast, ammonium bicarbonate and sodium bicarbonate, respectively.
 - (5) ammonium bicarbonate, sodium bicarbonate and yeast, respectively.
- 33. Higher consumption of legume seeds may lead to poor digestion of protein and flatulence due to the presence of
 - (1) phytate and trypsin inhibitors in seed kernal.
 - (2) phytate and lipoxygenase in seed kernal.
 - (3) trypsin inhibitors and phytate in seed coat.
 - (4) lipoxygenase and phytate in seed coat.
 - (5) trypsin inhibitors and resistant starch in seed kernal.
- 34. The correct sequence of unit operations in making soya milk from soya bean seeds is
 - (1) grinding, soaking, heating and filtering.
 - (2) soaking, blending, filtering and boiling.
 - (3) grinding, steaming, filtering and boiling.
 - (4) soaking, steaming, blending and filtering.
 - (5) soaking, blending, steaming and filtering.
- 35. Pectin and sulphur dioxide in jam served as
 - (1) a thickener and a preservative, respectively.
 - (2) a preservative and a flavouring agent, respectively.
 - (3) an emulsifier and a preservative, respectively.
 - (4) a gelling agent and an antioxidant, respectively.
 - (5) a stabilizer and an antimicrobial agent, respectively.
- 36. Total soluble solid of a food is determined using a
 - (1) pH meter.

(2) tensiometer.

(3) Brix meter.

(4) viscometer.

- (5) ebliometer.
- 37. During minimal processing of fruits and vegetables
 - (1) high heat processing is applied.
 - (2) good manufacturing practices need to be employed.
 - (3) diversified food products are produced.
 - (4) preservatives are added to extend the shelf-life.
 - (5) advanced and costly unit operations can be applied.

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38	Ogr	motio dobudnotion is				
30	. Osi (1)	motic dehydration is				
	(2)	used for drying of fruits.	C 1			
	(3)	commonly used in processing dry	/ fish	l .		
		1 P. D.	ervatı	ion.		
	(5)	used to make food powders.	_			
	(3)	performed with high concentration	n of	alcohol.		
39.	Foll	owing are few requirements related A - Availability of good quality B - Addition of starter cultures	milk	and cream	ream	l .
		C - Cold storage				
		D - Sensory evaluation of the pr	roduc	t		
	Of	the above, the correct requirements	are			
	(1)	A and B only.		B and C only.	(3)	A D and C anter
	(4)	A, C and D only.		all A, B, C and D.	(3)	A, B and C only.
		•	()	11, 2, 0 and B.		
40 .		example for a diversified fish prod	uct is	S		
		jadi.	(2)	dry fish.	(3)	fish balls.
	(4)	Maldive fish.	(5)	smoked fish.	(0)	non ours.
	_					
41.	Saus	sages are a processed meat product	. The	ey are categorized as		
	(1)	fermented food.		smoked food.	(3)	value added food.
	(4)	chemically preserved food.	(5)	osmotically dehydrated food.	, ,	
12	Solo	of the compat statement . I'				
4 2.	(1)	ct the correct statement regarding v	/irgin	coconut oil.		
	(2)	Cannot be used for frying of food				
	(3)	Widely used in the soap manufact	uring	process		
	(4)	Extraction temperature range is 90	°C	100°C		
	(5)	Contains less amount of antioxidar	its co	ompared to raw coconut oil		
	(3)	Contains more unsaturated fatty ac	ads c	compared to raw coconut oil		
43.	Cons	ider the following statements.				
		A - Oleoresin contains aromatic of	omn	ounde		
		B - Oleoresin adds characteristic	onipo tacte	and flavour to the feed and		
	Of the	ne above,	asic	and havour to the rood produ	ct.	
		Both A and B are correct.				
		A is correct and B is incorrect.				
		B is correct and A is incorrect.				
		A is correct and it is further expla	ined	hv B		
		B is correct and it is further expla				
	` ,	- I - I - I - I - I - I - I - I - I - I	inica	by At.		
14.	An in	nportant characteristic that should be	cons	sidered when selecting glass cor	ntaina	ere ae a nooleanie -
	mater	ial is		The state of the s	IIIC	as a packaging
	(1)	low weight.	(2)	low cost.		
		attractive shape.		attractive colour.		
		photochemical interactions.	` /	Solodi.		

- 45. Select the correct statement regarding the different packaging techniques.
 - Vacuum packaging is commonly used in sausage production process.
 - Controlled atmospheric packaging always prevents the oxidation of food. (2)
 - (3) Aseptic packaging preserves the colour of a food product.
 - (4) Aseptic packaging is commonly used in milk powder production.
 - Controlled atmospheric packaging is widely used in the beverage industry.

- 46. The possible critical control points available in the sterilized milk bottling industry are
 - (1) sterilization temperature, sealing environment, temperature of the distribution environment and bottle washing.
 - (2) bottle washing, sterilization temperature, sterilization time duration and sealing environment.
 - (3) sealing environment, bottle washing, hygienic condition at the sales outlet and distribution environment.
 - (4) bottle washing, distribution environment, hygienic condition of the sales outlet and sterilization time duration.
 - (5) sterilization temperature, sterilization time duration, bottle washing and hygienic condition of the sales outlet.
- 47. Ash content in a food represents
 - (1) fat content.

- (2) fiber content.
- (3) mineral content.

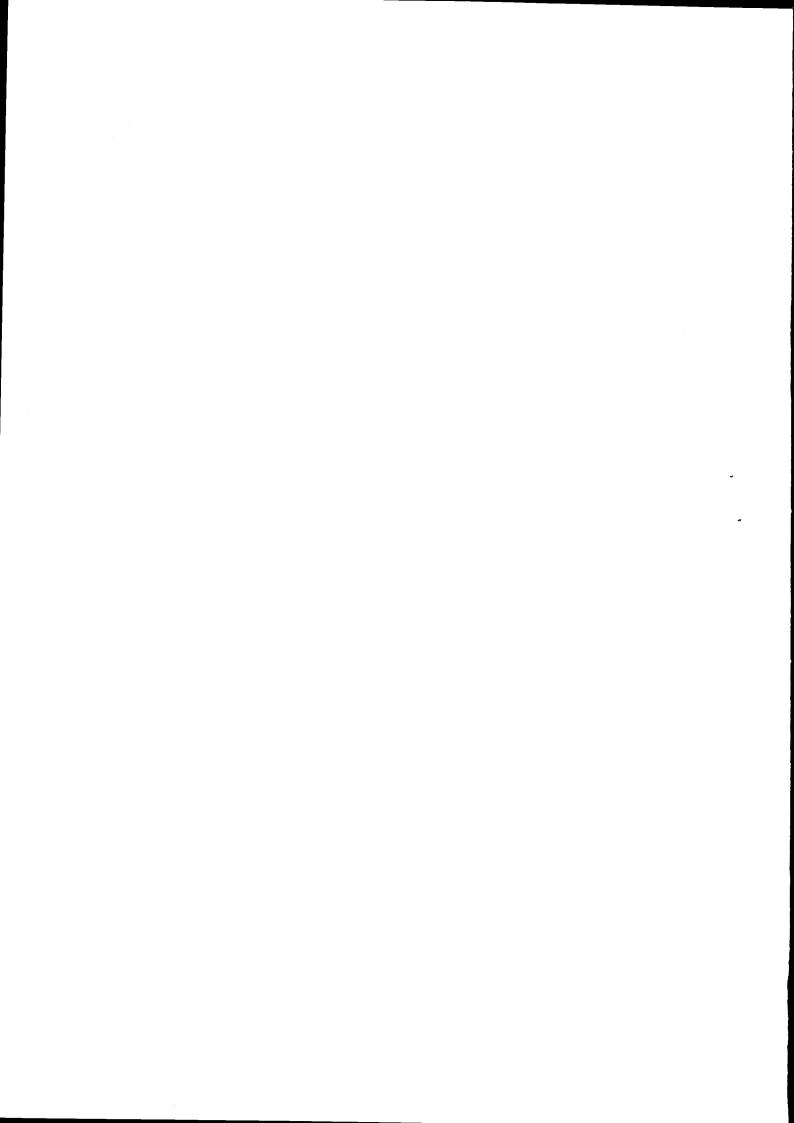
(4) calorific value.

- (5) vitamin content.
- 48. Osteoporosis and xerophthalmia conditions in human that are caused due to deficiencies of
 - (1) calcium and iron.
- (2) vitamin B and calcium.
- (3) calcium and vitamin A.
- (4) iron and calcium.
- (5) calcium and vitamin D.
- 49. Consider the following statements.
 - A Iodine deficiency directly affects the function of the thyroid gland.
 - B Iodine deficiency indirectly affects the calcium metabolism.

Of the above,

- (1) Both A and B are correct.
- (2) A is correct and B is incorrect.
- (3) B is correct and A is incorrect.
- (4) A is correct and it is further explained by B.
- (5) B is correct and it is further explained by A.
- 50. The critical factor of flour that should be considered by a biscuit and bread manufacturer is
 - (1) colour of the flour.
 - (2) fat content of the flour.
 - (3) fiber content of the flour.
 - (4) protein content of the flour.
 - (5) reducing sugar content of the flour.

* * *



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කා විභාග දෙපාර්තු නියුතු කියලා පිටුතු කියලා පිටුතු කියලා විභාග දෙපාර්තමේන්තුව දී ලංකා විභාග දෙපාර්තමේන්තුව இலங்கைப் படுக்கிற இந்நுக்குக்கும் இலங்கைப் பிடிக்கு தினைக்களும். இலங்கைப் பிடிக்குத் தினைக்களும் aa Department of **இலந்நினைக**ட்டுப்**பிட்டிய இது முற்று இலங்கை இல**ந்து இலங்கைப் படுக்கு இல் இலங்கைப் படுக்கு இலை இலங்கை இலங்கைப் படுக்கு இலை இல் சேரும் இலைக்களும் இலங்கைப் படுக்கு இலைக்களும் இலங்கைப் பிடிக்கத் தினைக்களும்

අධානයන පොදු සහතික පතු (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



පැය තුනයි

மூன்று மணித்தியாலம்

Three hours

අමතර කියවීම් 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
	1	
A	2	
	3	
	4	
	5	
В	6	
	7	
	8	
C	9	
	10	
Total		

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In Numbers	·		
In Letters			

Code Numbers

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

Part A - Structured Essay Answer all questions on this paper itself.

Do not write in this column

1. (A)			
` ,		e the two controversial concepts that describeng them.	e how human perceive the interaction
	(1)		
	(-)		
	(2)		
(B)	State	e a method each to control pollution from for	llowing activities.
	(1)	Particulate emission due to burning diesel in	agricultural tractors:
	(2)	Runoff of excess nutrients from farmlands to	surface water:
(C)	G		
(C)	State	e two advantages of providing a balanced die	t to school children.
	(1)		
	(2)		
		•••••	••••••
(D)	Write	e two disadvantages of frequent consumption	
(D)	Write	e two disadvantages of frequent consumption	of fast foods.
(D)	(1)		of fast foods.
	(1) (2)	e two disadvantages of frequent consumption	of fast foods.
	(1) (2) Spoil	e two disadvantages of frequent consumption	of fast foods.
	(1) (2) Spoil	e two disadvantages of frequent consumption	of fast foods.
	(1) (2) Spoil follo	lage of food could occur due to different reas wing food spoilage conditions.	of fast foods. ons. State one reason for each of the
	(1) (2) Spoil follo	e two disadvantages of frequent consumption lage of food could occur due to different reas wing food spoilage conditions. Spoilage condition	of fast foods. ons. State one reason for each of the
	(1) (2) Spoil follo (1)	e two disadvantages of frequent consumption lage of food could occur due to different reas wing food spoilage conditions. Spoilage condition	of fast foods. ons. State one reason for each of the Reason
	(1) (2) Spoil follo (1) (2)	lage of food could occur due to different reas wing food spoilage condition Spoilage condition Rancidity Formation of brown colour of certain cut fruits	ons. State one reason for each of the Reason
(E)	(1) (2) Spoil follo (1) (2) (3) (4)	lage of food could occur due to different reas wing food spoilage conditions. Spoilage condition Rancidity Formation of brown colour of certain cut fruits Development of sour taste in milk products	ons. State one reason for each of the Reason
(E)	(1) (2) Spoil follo (1) (2) (3) (4) Prop	lage of food could occur due to different reas wing food spoilage conditions. Spoilage condition Rancidity Formation of brown colour of certain cut fruits Development of sour taste in milk products Development of black spots on bread slices	of fast foods. ons. State one reason for each of the Reason urity.
(E)	(1) (2) Spoil follo (1) (2) (3) (4) Prop	lage of food could occur due to different reas wing food spoilage conditions. Spoilage condition Rancidity Formation of brown colour of certain cut fruits Development of sour taste in milk products Development of black spots on bread slices ose two ways to achieve household food sectors	of fast foods. ons. State one reason for each of the Reason urity.

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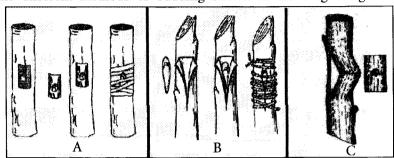
(G)	Names	of	species	of	few	commonly	used	agricultural	crops	are	given	below.
	State a	veg	etative p	ropa	gation	structure fo	ound in	n each specie	es.			

- 3 -

Species	Vegetative propagation structure
(1) Centella asiatica	
(2) Solnaum tuberosum	

Do not write in this column

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



Α	•••••	 	• • • • • • • • • • • • • • • • • • • •

(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)

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2. (A)	(1)	Name	months	in	the	year	in	which	the	highest	rainfall	is	expected	by	the	farmers
		in the	Dry Zo	one	of	Sri L	anl	ca.								

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

•	

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Example

(3)	List two factors to be	considered in	establishing a r	ain gauge in a	meteorological station

(i)	
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1::>	
(11))

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

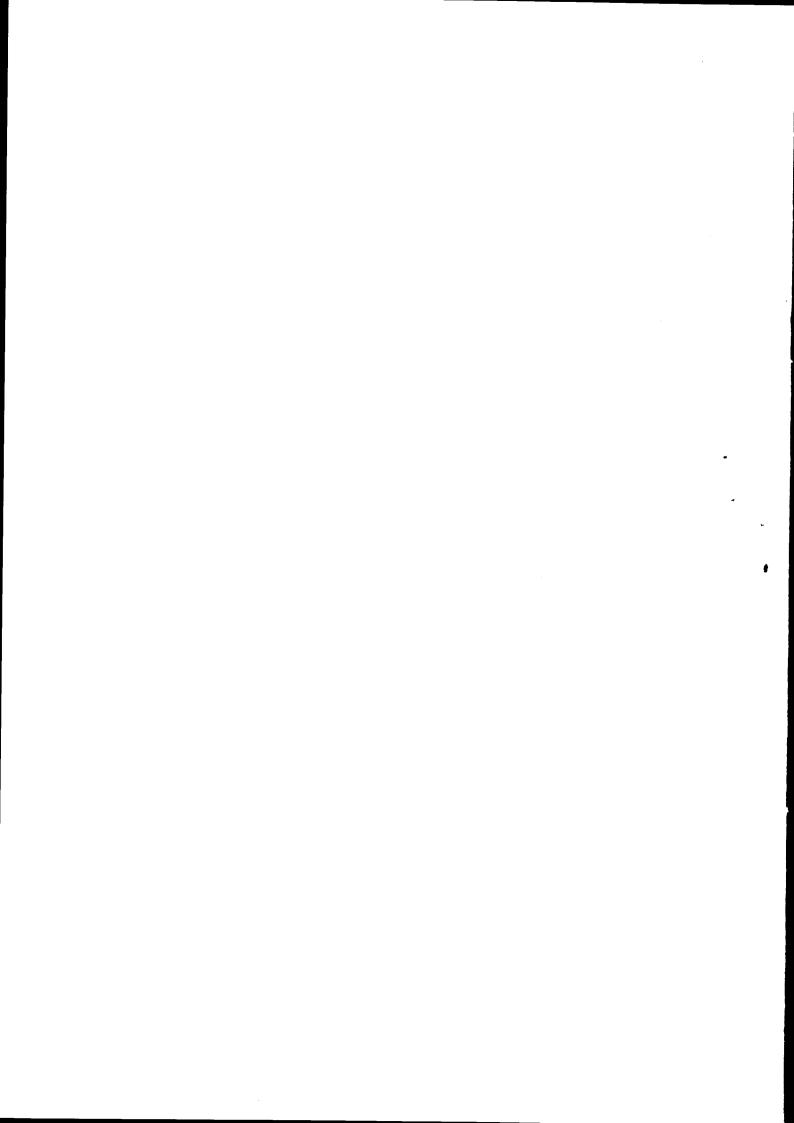
Brackish water ecosystem	
Salt water ecosystem	

(C) State four methods to minimize post-harvest losses in vegetables	wri	
(1)	• • • • • • • • • • • • • • • • • • • •	this lumn
(2)		
(3)		
(4)		
(D) List two examples for traditional biotechnological techniques used	l 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 involve tea. State whether they are changes occurred in the internal en- 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	1 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.	Do not write in this
		(1)	column Q. 2
		(2)	$\left \overbrace{100} \right $
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
		(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)	5.5
		(ii)	
		(iii)	
		(2) Provide two examples for diversified food products of pineapple.	
		(i)	
		(ii)	

	(G)	pilg	flour and pepper mixed confectionery items are commonly consumed in Sripada rimage. State two scientific objectives of the consumption of the above mentioned fectionery items at Sripada.	Do not write in this
		(1)		column
		(2)		
	(H)		e one advantage of employing osmotic dehydration in food processing and provide example for such food product.	
		(1)	Advantage	:
		(2)	Example	
	(I)		e two major refining processes available for coconut oil.	
		(1)		
		(2)		
	(J)		e two types of essential oils.	Q. 3
		(1)		
		(2)		$\sqrt{100}$
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)	

(C)	(1)	Write an advantage of adding antioxidants into processed food.	Do not write in this
	(2)	State the role of natural dietary antioxidants in the human body.	column
	(3)	Write one example each for water soluble and fat soluble natural antioxidants present in food.	
		water soluble antioxidant	
		fat soluble antioxidant	
		e four factors that should be considered when selecting a container for canned food action.	
	(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)	<u> </u>
(F)	Stat	e two major differences between yoghurt and ice cream.	0.4
	(1)		
	(2)		100
	(-)	**	



<mark>නව/පැරණි නිර්දේශය – புதிய/பழைய பாடத்திட்டம் – New/Old Syllabus</mark>

NEW/OLD

ை වலு දෙපාර්ත**ල් අමානා මෙයාග දෙපාර්තමේන්තු**ලිනු දෙපාර්තමේන්තුව දී ලංකා වි**හා දෙපාර්තමේ**න්තුව இலங்கைப் புதினத்த தினைக்கும் இதுங்கைப் புதினத்த தினைக்களம் இலங்கைப் புதினசத் தினைக்களம் ka Department of **இலியினில்**பி Sri பூதி**ல் இது இலங்கைப் புதின்ற இலங்கைப் புதின்ற දෙපාරතමේ**න්තුව දී ලංකා විභාග දෙපාරතමේන්තුව කා විභාග දෙ**ත්වේන් අතිවේත වර්තමේ වන අත්රත්ත්රත්ව S. S. අවන්තල** දෙපාරතමේන්තුව දී ලංකා විභාග දෙපාරතමේන්තුව හි இலங்கைப் பூதினசத் தினைக்களம் இலங்கைப் பூதினசத் தினைக்களம் இலங்கைப் பூதினசத் தினைக்களம்

අධායන පොදු සහතික පතු (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

உணவுத் தொழுனுட்பன்யல் H Food Technology II [17] E [II]

Essay

* Select two questions from each of the Parts **B** and **C** and answer four questions only. (Each question carries 150 marks.)

Part B

1. (i) Explain the following statement, with examples.

"Soft technology is always simple and cost-effective."

- (ii) Describe the impact of wind and humidity on the agricultural production in Sri Lanka.
- (iii) Describe how different plant parts are processed to make medicinal products giving appropriate examples.
- 2. (i) Explain the important activities in relation to proper management of a business.
 - (ii) Describe the risk of using chemical disinfectants at home to sanitize fresh fruits and vegetables giving appropriate examples.
 - (iii) Explain the importance of propagation by seeds in food crop production.
- 3. (i) Describe the importance of food processing in achieving national level food security.
 - (ii) Explain how the fishery industry contributes to the pollution of aquatic ecosystems.
 - (iii) Explain the following statement.

"Use of some of the modern biotechnological techniques increases the need for preservation of genetic resources."

Part C

- 4. (i) Briefly explain the basic steps that should be followed to obtain the Sri Lanka Standards (SLS) for a food product.
 - (ii) Briefly explain the impact of different cultural food habits on nutrition profile of a person.
 - (iii) Describe the unit operations of bread making, highlighting the specific roles of its ingredients and additives.
- 5. (i) Describe the factors to be considered in minimal processing of fruits and vegetables as a business.
 - (ii) Explain the unit operations involved in making frozen fish products.
 - (iii) Briefly explain the benefits of consuming virgin coconut oil over raw coconut oil.
- 6. (i) Describe the information that can be obtained from a label of a food product.
 - (ii) Briefly explain the use of sensory evaluation in a new food formulation process.
 - (iii) Describe the physico-chemical changes that take place in major constituents of food processing providing examples.

