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Instructions:       * Answer all the questions.         * Write your Index Number in the space provided in the answer sheet.         * Instructions are given on the back of the answer sheet. Follow them 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 (w) in accordance with the instructions given at the back of the answer sheet.         * Use of calculators is not allowed.         1. After irrigation, a student observed the quick disappearance of water from a particular soil surface. This may mainly be due to high (1) silt content in the soil. (2) clay content in the soil.         (3) sand content in the soil.       (4) bulk density in the soil.         (3) increase flocculation process, Alum is used to (1) destroy microorganisms.       (2) precipitate Mn and Fe ions (3) increase flocculation of suspended sediments.         (4) increase decomposition rate of organic matter.       (5) adjust pH needed for cosquitation and flocculation.         (3) transpiration and percolation.       (2) evaporation and percolation.         (3) increase flocculation of suspended sediments.       (4) increase flocculation of suspended sediments.         (4) increase decomposition rate of organic matter.       (5) adjust pH needed for cosquitation and flocculation.         (3) transpiration and percolation.       (2) evaporation and percolation.         (4) the hormone responsible for ovulation in a cow is       (1) LH.	I DE B	சேப் கிறைக்கை கை க
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(5) deep sea fishery. (4) cage culture fishery (5) pond culture fishery		(1) fresh water fishery. (2) coastal fishery
		(5) deep sea institute (4) cage culture fishery (5) pond culture fishery

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9.	Syn gas is a product generated through the partial oxidation of biomass at higher temperature. The major constituents of syn gas are
	(1) CO and $H_2$ (2) CO <sub>2</sub> and $H_2$ (3) CO and $H_2O$ (4) CO <sub>2</sub> and $H_2O$ (5) CO <sub>2</sub> and CH <sub>4</sub>
•	Use following tests/methods to answer question Nos. 10 and 11. A - Sudan III test B - Oven drying method C - Dye binding method D - Dean and Stark method
10.	Of the above tests/methods, fat in a food material can be qualitatively determined by(1) A only.(2) B only.(3) C only.(4) B and C only.(5) C and D only.
11.	Of the above tests/methods, the protein content of a food material can be determined by(1) A only.(2) B only.(3) C only.(4) B and C only.(5) C and D only.
12.	<ul> <li>Following are some statements regarding the members of a sensory evaluation panel.</li> <li>A - Minimum number of members for a sensory evaluation panel should be three.</li> <li>B - Sensory capacity of the sensory panellists for foods should be at average level.</li> <li>C - Sensory panellists should be <b>non-smokers</b></li> <li>Of the above, the correct statement/s regarding the members of the sensory panel would be</li> <li>(1) A only.</li> <li>(2) B only.</li> <li>(3) C only.</li> <li>(4) A and B only.</li> <li>(5) A and C only.</li> </ul>
13,	In caramelization, the key factor that can be directly affected on the final colour of the caramel
	(1) pH.(2) antioxidant.(3) fat content.(4) temperature(5) concentration of polyphenol oxidase enzyme.
•	Use following diagram to answer question No. 14.
14.	<ul> <li>The main use of the instrument shown in the above diagram is to</li> <li>(1) magnify a distantly located object.</li> <li>(2) locate the bench mark on the ground.</li> <li>(3) get the elevation difference of different locations.</li> <li>(4) locate a position respect to a point on the ground.</li> <li>(5) measure a vertical angle to measure height of a building.</li> </ul>
15	An example for an electronic component that can be used as a sensor is (1) LED (2) LDR. (3) relay. (4) resistor. (5) transistor.
16.	A farmer wants to construct a farm building with the roofing angle of $10^{\circ}-15^{\circ}$ . The most suitable roofing material for this structure is
	(1) kajan.(2) straw.(3) asbastos.(4) calicut tiles.(5) half round clay tiles.

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•	Use following diagram to answer question No. 17.
17.	<ul> <li>Names of the parts labelled as P, Q and R in the above diagram are</li> <li>(1) air cleaner, silencer and gear box, respectively.</li> <li>(2) radiator, differential and gear box, respectively.</li> <li>(3) silencer, air cleaner and engine, respectively.</li> <li>(4) engine, radiator and gear box, respectively.</li> <li>(5) gear box, radiator and engine, respectively.</li> </ul>
18,	<ul> <li>Mechanical soil conservation methods are commonly used in steep lands for soil conservation mainly due to</li> <li>(1) easy maintenance.</li> <li>(2) effectiveness in managing runoff.</li> <li>(3) flexibility for farm mechanization.</li> <li>(4) easiness to establish with minimum labour.</li> <li>(5) contribution to minimize rain drop impacts.</li> </ul>
19.	A student experienced the rancid flavour in cheese and butter kept open in room temperature. This may be due to the oxidation of (1) fat. (2) whey. (3) protein: (4) minerals. (5) lactic acid.
20	Tilapia is a popular food fish found in Sri Lanka. Tilapia is(1) an invasive species.(2) an endemic species.(3) a threatened species.(4) an indigenous species.(5) an introduced species.
21.	The structure used by ancient Sri Lankans to reduce erosion of tank dam is(1) Potavati.(2) Bisokotuwa(3) Rip-rap.(4) Sluice.(5) Water gauge.
22.	<ul> <li>Following are some statements about water quality parameters.</li> <li>A - Capacity of water to consume oxygen from degradable organic materials is known as COD.</li> <li>B - Ca and Mg are major ions contributing water hardness.</li> <li>C - Coliform test is used to determine total biodegradable materials of water.</li> <li>Of the above, the correct statement/s would be</li> <li>(1) A only.</li> <li>(2) B only.</li> <li>(3) A and B only.</li> <li>(4) A and C only.</li> <li>(5) B and C only.</li> </ul>
23.	<ul> <li>Observations that could be made in a cow in heat would be</li> <li>(1) swollen vulva, bellowing and lying on the floor.</li> <li>(2) reddish vulva, frequent urination and restless behaviour.</li> <li>(3) reddish vulva, restless behaviour and increased feed intake.</li> <li>(4) swollen vulva, frequent urination and increased milk production.</li> <li>(5) bellowing, increased milk production and mounting on other cows.</li> </ul>
24.	Addition of iodine to the common salt can be explained as (1) irradiation. (2) enrichment. (3) fortification. (4) adulteration. (5) preservation.

25.	The fat content in milk of a particular cow during the first 5 days of lactation was 6.2% and the average fat content of the same cow during the rest of the lactation period was 3.5%. This cow could be belong to(1) Sindhi breed.(2) Local breed.(3) Jersey breed.(4) Sahiwal breed.(5) Friesian breed.
26.	<ul> <li>In embryo transfer of cows,</li> <li>(1) embryos are obtained two weeks after the insemination.</li> <li>(2) the body condition score of a donor cow must be above 5.</li> <li>(3) only a single insemination is done 12 hours after the onset of heat.</li> <li>(4) both donor and recipient cows should be in the same stage of heat cycle.</li> <li>(5) the super ovulation is done to select the best ovule among the set of ovules.</li> </ul>
27.	<ul> <li>A net with small eyes are set above the bottom of the fish tank in ornamental fish breeding. The objective of this practice is to</li> <li>(1) stimulate fish for breeding</li> <li>(2) provide a surface for egg laying.</li> <li>(3) protect the eggs from the parent fish</li> <li>(4) prevent the eggs dragging towards the air filter.</li> <li>(5) prevent the floating of eggs on the water surface</li> </ul>
28.	<ul> <li>The theme of the Ramsar Convention is</li> <li>(1) the conservation and wise use of global wetlands.</li> <li>(2) the mitigation of global greenhouse gas emission.</li> <li>(3) the conservation and sustainable use of biodiversity</li> <li>(4) the replanting of corals destroyed by el-nino and la-nina.</li> <li>(5) the prevention of the international trade of endangered species.</li> </ul>
29.	<ul> <li>The most suitable package for edible oil is</li> <li>(1) opaque polythene package.</li> <li>(2) air tight clear glass container.</li> <li>(3) air tight clear plastic container.</li> <li>(4) transparent polythene package.</li> <li>(5) air tight opaque plastic container.</li> </ul>
30.	Adding of organic matter to the soil may increase(1) runoff.(2) soil pH.(3) compaction.(4) bulk density(5) availability of plant nutrients
31	<ul> <li>In levelling, on a turning point,</li> <li>(1) instrument turns 180°.</li> <li>(2) two foresights are taken.</li> <li>(3) a back-sight and a foresight are taken.</li> <li>(4) instrument location does not change.</li> <li>(5) staff gauge location should be changed.</li> </ul>
32.	An example for an effective plant growth regulator to induce rooting of a cutting is(1) Abscesic Acid (ABA)(2) Giberalic Acid (GA3).(3) Indol Butric Acid (IBA).(4) Napthaline Acetic Acid(5) 2-4 Dicholoro Phenoxy Acetic Acid.
33	The most effective method to control Atawara ( <i>Panicum repens</i> ) weed would be         (1) burning.       (2) mulching.         (3) use of biological agents.       (4) application of contact weedicide         (5) application of a systemic weedicide

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41. In a food production process,

- A Good Agricultural Practices (GAP) may help to maintain the quality of a food material.
- B Selection of high quality planting materials and use of suitable pest control methods may lead to produce high quality foods.
- Of the above, statements
- (1) both A and B are incorrect. (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.

42. Following are some of the techniques used in protected structures.

- A Fixing misters
- B Fixing exhaust fans
- C Fixing bio-nets
- Of the above, the effective technique/s used to reduce temperature in a polytunnel would be

(2) B only.

- (1) A only.
- (4) A and C only. (5) B and C only.
- Following diagram shows a commonly used water pump type in Sri Lanka. Use this diagram to answer question No. 43.



43 Priming of above type of pumps is done by

- (1) running the pump without water.
- (2) filling the delivery line with water.
- (3) emptying the pump before starting.
- (4) inserting air in to the casing of the pump
- (5) filling the pump and the suction line with water.
- 44. On a rainy day, rain gauge accumulated 462 cm<sup>3</sup> rain water. If the diameter of the rain gauge is 14 cm, the rain fall received on this day is
  - (1) 1 cm. (2) 3 cm. (3) 5 cm.
- 45. Bioremediation can be effectively used to
  - (1) clean air inside a greenhouse.
  - (2) provide micronutrients to the crops.
  - (3) control alien invasive aquatic weeds.
  - (4) generate energy from the farm waste.
  - (5) treat waste water from a food processing factory.
- 46. In surveying, the height of the instrument changes
  - (1) at each location of the staff gauge.
  - (2) in undulating lands with no turning points.
  - (3) in obtaining foresights between turning points.
  - (4) with the change of the location of the instrument.
  - (5) in obtaining staff gauge reading on the bench mark

47. To control a pest damage, the most suitable stage for application of pesticide for a crop would be

- (1) after the epidemic level.
- (2) after the economic injury level.
- (3) before the economic injury level
- (4) after the economic threshold level.
- (5) before the economic threshold level.

(3) A and B only.

nlv

(4) 7 cm

(5) 9 cm.

- 48. A farmer irrigated his manioc field on the previous day before the harvesting. This can be best explained as
  - (1) wasting of irrigation water.
  - (2) pre-harvest operation to minimize post-harvest losses.
  - (3) pre-harvest operation to maximize the weight of the harvested manioc.
  - (4) pre-harvest operation to maintain the freshness of the harvested manioc.
  - (5) pre-harvest operation to reduce the cyanide content of the harvested manioc.
- 49. The most suitable state to harvest pineapple is when
  - (1) fruits are green and matured.
  - (2) 10% of the fruits are yellow in colour.
  - (3) 50% of the fruits are yellow in colour.
  - (4) 80% of the fruits are yellow in colour.
  - (5) leaves in the crown become pale green.

50. Of the following, what would be the safety icon commonly use to express slippery floor?



\* \* \*



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rved
பைகைக்குல நிலைக்கும் இருந்து இது கால கால காலக்கும் திறைக்குவும், நில்கால நிலைக்கும் பிருந்து இருந்துக்கு nations, Sri Lanka மால்கள்கள் இருந்து பிருந்து காலக்கள் காலைக்கும் இருந்து காலக்கள் இருந்தும் பிருந்து இருந்து
පෙළ) වහාගය, 2018 අගෝස්කු 10) தர)ப பரீட்சை, 2018 ඉகஸ்ற Level) Examination, August 2018
<b>5 E H 10.08.2018 / 1400 - 1710</b>
අමතර කියවීම් කාලය - මිනිත්තු 10 දි மேலதிக வாசிப்பு நேரம் - 10 நிமிடங்கள் Additional Reading Time - 10 minutes
per, select the questions and decide on the questions

#### Instructions :

Index No. :

\* This question paper comprises of two parts, Part A and Part B. The time allotted for both parts is three hours

### PART A - Structured Essay : (pages 2 - 8)

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

## **PART B** - Essay: (pages 9 - 10)

\* Answer four questions only. Use the papers supplied for this purpose. At the end of the time allotted for this paper, the two parts together so that Part A is on top of Part B before handing them over to the Supervisor.

\* You are permitted to remove only Part B of the question paper from the Examination Hall.

Part	Question Nos.	Marks Awarded	Final Marks
	1		In numbers
	2		In words
Α	3		Code Numbers
	4		Marking Examiner 1
	5		Marking Examiner 2
	6		Marks checked by
	7		Supervised by
В	8		
	9		
	10		
	Total		
Percentage			

# For Examiner's Use Only

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	PART A – Structured Essay	Do not
1 (4)	Answer all four questions on this paper uself.	in this
1 (A)	(i) State two former of precipitation found in Sri Lonke	column
	(i) State two forms of precipitation found in Sri Lanka	
	(1)	
	(2)	
	(ii) State two main impacts of heavy rainfall on bio-systems	
	(1)	
	(2)	
(B)	The productivity of a soil mainly depends on the eco systems health of the soil.	
	(1) List two visible characteristics of a healthy soil	
	(1)	
	(2)	
	(ii) State an anthropological activity that degrades the healthiness of an agricultural soil,	
	(iii) State two major problems which may occur due to waterlogging in an agricultural land.	
	(2)	
	(iv) State a measure that could be used to reclaim a soil which is waterlogged,	
	(v) Name a crop adopted to waterlogged condition.	
(C)	A student observed large number of dead fishes in a water body	
	(i) What could be the main water quality parameter responsible for the death of fish	
	in the above water body?	
	(ii) State a measure that could have been taken to rectify this situation in the above	
	water body.	
(D)	Sub-surface irrigation minimizes the water losses due to evaporation from the soil surface.	
	(i) In addition to minimizing the evaporation losses state <b>two</b> more advantages of	
	using a sub-surface irrigation system.	
	(1)	
	(2)	
	(ii) State a main disadvantage of our surface invigation when compare to surface	
	imigation	
	(iii) Drin irrigation can be used successfully if the water such this is good. State the water	
	(iii) Drip inigation can be used successibility if the water quality is good. State the water quality related factor that hinders the application of drip irrigation technology in	
	certain parts of the dry zone of Sri Lanka.	

 $\mathbf{2}$ 

<ul> <li>(E) Surface irrigation is the most common irrigation method used in Sri Lanka.</li> <li>(i) State one major factor that determines the length of a furrow in ridge and furrigation</li> </ul>	Do not write in this JITOW column
(ii) State a main advantage of using pitcher irrigation compared to basin irrigation	n
(F) Following figure shows a view from a levelling instrument on a staff gauge. Use diagram to answer questions (i) to (iii).	this
LIT HILL	
(i) What is the reading of the staff gauge?	
(ii) If the staff gauge is on a location 0.5 m above the bench mark (0 m) what w be the height of the levelling instrument?	/ould
(iii) State an instance the instrument needs to be placed in a different location (tur point) in levelling.	ming
(iv) State two main advantages of plain table surveying compared to chain survey.	ing.
	26592.5
(2)	
<ul> <li>(G) Post-harvest techniques are mainly used to maintain the quality of the agricultural prod Name the most appropriate post-harvest technique to achieve following objectives.</li> <li>(i) Control anthracnose disease on mangoes and papayas</li> </ul>	luce.
(ii) Minimize loss of sugar in harvested sweet corn	
	81438-3
(iii) Prevent greening of harvested potato tubers	
(iv) Handling cut flowers to minimize the wilting during the postharvest period	*****
	QI
	60

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	P Q	R	
	Name of the stem modification	Сгор	
(i)	P		
(ii)	Q		
(iii)	R		
(B) ISO ( mana)	22000 allows a company to show their custon agement system in place. State two benefits of	mers that they have a food safety ISO 22000 to the customers.	
(1) .			
(11) .	CONSTRUCTION CONTRACTOR STATEMENT	IN STREET	
(C) The intere	nutrition labelling has become a common practice to read the nutrition label before buying a	tice as most of the consumers are a food item.	
(i) §	State the main importance of nutritional labelling.		
(ii) 1	Name a food that is exempted from nutritional labe	lling.	
(D) Deten steps (i) S	mination of market demand for a new food pro in a new product development process. State <b>three</b> methods that can be used to deterr food product.	oduct is one of the most important nine the market demand of a new	
(	(1)		
(	(2)		
(	(3)		
(ii) S f	State <b>three</b> basic criteria that can be followed in the food product.	e selection of raw materials for a new	
(	(1)		
(	(2)		
(	(3)		
(E) Contro (i) V	ol systems are widely used in bio-systems engi Write an example of using a control system in b related to food production.	neering applications. pio-systems engineering applications	
(ii) S	State <b>two</b> advantages of using the example, me nanual operation	entioned in (i) above compared to	
(	(1)		
(	(2)	A CREATE A COLOR OF A CREAT A CREAT A	

<ul> <li>(iv) Following is a schematic diagram of an electromagnetic relay. Use this diagram t answer questions (1) and (2).</li> <li>(1) Write the function of P in the above diagram.</li> <li>(2) State an example of using the device shown in the above diagram in a control</li> </ul>
<ul> <li>(iv) Following is a schematic diagram of an electromagnetic relay. Use this diagram t answer questions (1) and (2).</li> <li>P (1) Write the function of P in the above diagram.</li> <li>(2) State an example of using the device shown in the above diagram in a control</li> </ul>
<ul><li>(1) Write the function of P in the above diagram.</li><li>(2) State an example of using the device shown in the above diagram in a control</li></ul>
(2) State an example of using the device shown in the above diagram in a control
(2) State an example of using the device shown in the above diagram in a control
system.
F) Pumps are commonly used to lift water.
<ul> <li>(i) Piston pumps are not common compared to centrifugal pumps as water lifting devices. Write the main reason for this.</li> </ul>
(ii) State two water lifting devices other than pumps
(1)
(2)
<ul> <li>(i)</li> <li>(ii)</li> <li>I) Diversification of food may improve the availability of food in the market. List three diversified foods available in the market and state the technology used to diversify each food.</li> </ul>
Diversified food Technology used
(i)
(i)
(i)
<ul> <li>(i)</li></ul>
<ul> <li>(i)</li> <li>(ii)</li> <li>(iii)</li> <li>(iii)</li> <li>(iii)</li> <li>(iii)</li> <li>(i) Agricultural bio-systems are adversely affected by pests, diseases and weeds.</li> <li>(i) Classify the weeds into three main groups based on their morphological characters.</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(ii) State the most suitable weed control method to control following weeds.</li> <li>(1) Panicum repens</li> </ul>
<ul> <li>(i)</li></ul>

[see page six

(iii) State the nature of the dar Insect pest	nage and a control method of Nature of the damage	following insect pests. Control method	Do not write in this
(1) Drosicha mangiferae . (Mango mealy bug)			column
(2) Dacus cucurbitae (Fruit fly)			
(3) Maruca testulalis (Legume pod borer)			
(B) Pre-seed treatments are importa plant. State the suitable pre-seed	nt to ensure good germinatio I treatment for following seeds	n and growth of a crop 5.	
Name of the seed	Pre-seed	treatment	
(i) Rice			
(ii) Winged bean	1		
(iii) Passion fruit			
(C) The following diagram illustrate to answer questions (i) to (iii).	s the reproductive system of <b>S</b>	a cow. Use this diagram	
т — Ѯ	Q P		
(i) Name the parts labelled as	P, Q, R, S and T in the abo	ove diagram.	
(2) <b>Q</b>			
(3) <b>K</b>			
(4) 8	***************************************		
(5) T			
(n) Name the place where the	semen is deposited during arti	incial insemination.	
(iii) State the place where the f	ertilization takes place.		
(D) A farmer involved in pond fish fleet of fish swimming close to	culture, in his morning visit the surface of water with ope	to the pond observed a n mouths.	
(i) What could be the most pr	obable reason for his observat	ion?	
(ii) State an appropriate measur	e to overcome this situation.	2020/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/10/2017/1	

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(E)	Escalating fuel prices hinder the economic development of developing countries. (i) Name two renewable energy sources that could be used to overcome above problem.	Do not write in this
	(1)	colum
	(2)	
	(ii) State the major difference between energy production using biomass and fossil fuel	
(F)	A hazard can cause a potential harm to a vulnerable target and many measures are taken to minimize hazard risks. (i) What is OHSAS 18001?	:
	(ii) Substitution is one method of hazard control. Name one example for the application of substitution as a hazard control method.	
(G)	Adventure tourism involves exploration with a certain degree of risk, and it requires special skills and physical exertion. State two activities perform under the adventure ecotourism in Sri Lanka.	Q3
	(i)	
	(ii)	60
	<ul> <li>Ability to live with stress</li> <li>Ability to spot new trends</li> <li>Ability to identify strengths and weaknesses - Ability to hire effective people</li> <li>Of above characteristics, list three skills required to succeed as an entrepreneur</li> <li>(1)</li> <li>(2)</li> <li>(3)</li> <li>(ii) What is a hypinger global</li> </ul>	
	(11) what is a business plan?	
(B)	Plant extracts are substances extracted from tissues of plants, to be used for a particular purpose. State an example of plant extract used for each of the following purposes.	
	(i) As a pesticide	
	(ii) As a cosmetic item	
	(iii) As a perfume	
	(ii) As a liquid fertilizer	
$(\mathbf{C})$	In community forestry local community plays a significant role in forest management	
	<ul> <li>and land use decision making. List three main importance of community forestry.</li> <li>(i)</li> <li>(ii)</li> </ul>	

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(1)	colur
(2)	
(3)	
(ii) Name three ornamental fish species having high export value.	0211603694 019354
(1)	
(2)	
(3)	amonimi
(E) In commercial agriculture, controlled environmental conditions are commobtain high yields with improved quality.	nonly used to
(i) List <b>three</b> main climatic factors that are controlled in "Controlled Agriculture".	Environment
(1)	
(2)	
(3)	
(ii) State the most suitable type of poly-tunnel for following agro-climati	ic zones.
Agro-climatic zone Most suitable type of poly-	-tunnel
(1) Low country	ommuninini -
(2) Up country	
(i) What is the art of cultivation of plants shown in above diagram?	
(ii) State two main advantages of this type of cultivation.	
(1)	
(2)	
(iii) Name a suitable plant species for this type of cultivation.	
G) Use of farm machinery has become popular in present day agriculture of shortage. State three factors to be considered in selecting farm machinery land preparation.	due to labour y for primary
(i) (ii)	



