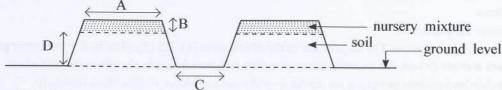
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අධායන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2024(2025) සහ්ඛ්ර பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2024(2025) General Certificate of Education (Ord. Level) Examination, 2024(2025)							
කෘෂි හා ආහාර තාක්ෂණය I, II விவசாயமும் உணவுத் தொழினுட்பவியலும் I, II Agriculture and Food Technology I, II							
අමතර කියවීම් කාලය - මිනිත්තු 10 යි							
Agriculture and Food Technology I							
Instructions: * Answer all questions. * In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is correct or most appropriate * Mark a cross (×) on the number corresponding to your choice in the given answer sheet. * Further instructions are given on the back of the answer sheet. Follow them carefully.							
 An influence on local agriculture by foreign invasions is restoration of the tank system and the development of irrigation technology. advent of a commercial agricultural economy based on plantation crops. emergence of farmer settlements and multipurpose schemes. increase in the production of local food including paddy. 							
2. The Maha season in Sri Lanka receives rain mainly by (1) south-west monsoon rains. (2) north-east monsoon rains. (3) first intermonsoon rains. (4) second intermonsoon rains.							
3. Select the option that includes crops only preferring high light intensity. (1) paddy and coffee (2) cocoa and coffee (3) chilli and brinjal (4) chilli and pepper							
 4. When the relative humidity in the atmosphere increases, (1) infection of plant diseases decreases. (2) absorption of water and nutrients increases. (3) dispersal of pollen by wind is facilitated. (4) rooting of stem cuttings occurs better. 							
5. An igneous rock of the following rocks is (1) shale. (2) marble. (3) sandstone. (4) granite.							
6. If moistened soil can be made as a ring when determining the texture of soil by the rollin method, that soil is a (1) clay soil. (2) sandy loam soil. (3) clay loam soil. (4) sandy soil.							
7. What is the soil structure most suitable for the cultivation of crops? (1) single granular (2) columnar (3) sub-angular blocks (4) crumbs							
8. A reason for soil alkalinity is (1) addition of sodium ions to soil by irrigated water. (2) washing away of basic ions due to heavy rains. (3) decomposition of organic matter in the soil. (4) frequent turning of soil.							

9. What is the answer which correctly indicates the crops belonging to the following plant families?

	Family	Crop types				
A	Poaceae	paddy, sorghum, cowpea bittergourd, ridgegourd, okra chilli, brinjal, tomatoes				
В	Cucurbitaceae					
C	Solanaceae					
D	Fabaceae	maize, soyabean, greengram				
(1) A (2) B	(3) C (4) D				

- 10. Disc plough, mould board plough and Japanese reversible plough are agricultural equipment used for
 - (1) primary tillage and operated by machine power.
 - (2) secondary tillage and operated by animal power.
 - (3) inter-cultivation and operated by man power.
 - (4) primary tillage and operated by animal power.
- 11. The following diagram indicates cross sectional appearance of two nursery beds.



The option which indicates recommended values for A, B, C and D correctly in centimetres is,

	A	В	C	D
(1)	100	15	20	10
(2)	75	10	30	20
(3)	80	15	25	20
(4)	100	05	30	10

- 12. The pathogen of damping off, a disease frequently contracted by nurseries is a
 - (1) bacterium.
- (2) fungus.
- (3) virus.
- (4) nematode.
- 13. The insect which eats up the leaves of brinjal leaving them like a net is,
 - (1) brown plant hopper.
- (2) Aulacophora.

(3) Epilachna.

(4) cucurbit fly.

- 14. Due to poor drainage,
 - (1) aerobic micro-organism population increases.
 - (2) use of agricultural equipment becomes easier for loosening of soil.
 - (3) plant roots grow deep in soil to obtain air.
 - (4) occurrence of fungal diseases relating to roots increases.
- 15. Sprinkler irrigation,
 - (1) increases soil erosion in the land.
 - (2) not suitable for sloping lands.
 - (3) helps pollination of crops.
- (4) more suitable for crops which are short.

16. In the following table, which option indicates the information about plant nutrients correctly?

	Element	Function carried out	Deficiency symptoms
(1)	N	Flowering	Leaf margins turn yellow
(2)	P	Growth of the root system	Leaves fall easily
(3)	K	Production of chlorophyll	Mature leaves turn yellow
(4)	Ca	Fruiting	Leaf margins appear burned

- 17. When adding fertilizers to the soil, a measure that should be taken to increase the fertilizer utilization efficiency is adding fertilizers,
 - (1) to the soil so that it comes into contact with the root of the plant.
 - (2) when the soil remains slightly damp.
 - (3) mixed with dolomite.
 - (4) in amounts more than that recommended.

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OL	/2024(2025)/81/E-I, II - 3 -					
18.	Of the following an annual weed is, (1) Cyperus. (2) Lantana. (3) Elephant foot. (4) Vernonia.					
19.	A bacterial disease frequently contracted by the crops belonging to Solanaceae family is (1) mossaic. (2) damping off. (3) wilt. (4) anthracnose.					
20.	Based on which stage of the paddy plant is the age of the paddy type decided? (1) growing stage (2) reproductive stage (3) maturation stage (4) harvesting stage					
21.	Given below are a few statements regarding simple solar propagators used to stimulate rooting of stem cuttings. A - There is a high temperature and low relative humidity in the solar propagator. B - Sand, compost and top soil are used in the ratio of 1:1:1 as the growing medium. C - Drainage should be improved inside the propagator. Of the above statements, the correct statement(s) is/are (1) only A. (2) only B. (3) only A and B. (4) only B and C.					
22.	Cultivating two or more crops in a certain land in the same period without a proper distance is (1) intercropping. (2) crop rotation. (3) mix cropping. (4) relay cropping.					
23.	A student who expected to induce rooting in a branch of a lemon plant by air layering, ring barked about 2 cm of the branch, covered the cut with the rooting medium and water, wrapped it with a sheet of polythene and tied. Here, the branch was ring barked to,					
	 induce the plant to absorb more water as more water gets removed from that place. block the translocation of food produced by that branch to other parts of the plant. obstruct the transport of water through the bark to the upper parts of that branch. make the separation of that branch from mother plant easier after rooting had set in. 					
24.	A material that can be used as a nutrient medium in soilless culture is (1) coir dust. (2) burnt paddy husk. (3) Albert solution. (4) sand.					
25.	The diagrams A, B, C and D below show four stem cuttings prepared for planting.					
	A B C D					
	Of these, the most suitable stem cutting for planting is					
	(1) A. (2) B. (3) C. (4) D.					
26.	 Of the following statements on tissue culture, select the false statement. (1) By tissue culture, a healthy plant can be obtained even from an unhealthy mother plant. (2) A larger number of plants can be produced by tissue culture compared to other methods of propagation. (3) Tissue-cultured plants can withstand adverse environments. (4) Storage and transportation of tissue-cultured plants are easy. 					
27.	Stem cuttings for planting are classified according to their stage of maturation. Tender cuttings that are taken for planting are, (1) sweet potato, Colias and Innala. (2) roses, croton and Bougainvillea. (3) Innala, manioc and Colias. (4) roses, tea and sweet potato.					
28.	Of the following select the correct statement.(1) When potato tubers are exposed to sunlight they turn green and they are not suitable for consumption.(2) When the Karuththakolomban variety of mango is grown in the wet zone, a proper quality mango harvest is obtained.					
	(3) Harvesting of fruits such as mango, banana and papaw should be done before they reach the mature stage.					

[see page four

(4) Low light is important to create the characteristic colour of Vilard mango variety.

	Annual Market Control of the Control					
29.	Select the option which includes only vitamins (1) A and B (2) B and K		are insoluble D and C		nter. A and D	
30.	A physical factor affecting food spoilage is (1) enzymatic actions. (2) oxidation.	(3) 1	light.	(4)	agro-chemicals.	
31.	A method of food preservation by controlling (1) concentration. (2) pasteurization.	-	erature is smoking.	(4)	fermentation.	
32.	A breed of cattle reared successfully in upcour a large body with black and white spots on the (1) Jersey. (2) Friesian.	he ski	Farms giving a in and a large Murrah.	uddei	yield of milk and havin r is Niliravi.	
33.		(2) g	milking is no gestation period lry period.		e. This period is called th	
34.	In a poultry farm, symptoms such as refusal to sluggishness and death of animals in large num contracted by these animals is (1) pullorum. (2) ranikhet.	nbers		e dise		
35.	What is the cause for the milk fever in cattle? (1) taking more legume plants as food (2) sucking blood by worms associated with t (3) removal of calcium from the body with m (4) uncleanliness of the cow shed and the cov	? the di			IOWI IOX.	
36.	A - During the first three days after the adequately. B - The calves should be reared inside he C - At the time of weaning the weight of Of the above, the correct statements are, (1) A and B only. (2) B and C only.	e birderd she	th of the cal eds till weanir calf should be	ng. twice	e its weight at birth.	
37.	A student bought 12, one day old chicks and function expected from the hen here is, (1) accustoming the chicks to live independent (2) providing necessary protection to the chick (3) providing necessary warmth to the chicks. (4) providing necessary affection of a mother	were tly.	kept under th			
38.	Various reasons cause dormancy in seeds. The reason for the dormancy of seeds in papaw, tomatoes and passion fruit is, (1) presence of immature embryos. (2) existence of a thick seed coat. (3) impermeability of the seed coat to air and water. (4) presence of growth inhibitors in the seed coat.					
39.	Preparation of curd in clay pots, (1) decreases its percentage of water due to remporous.		in the form of	vapou	ur because their surface is	
100	(2) increases nutrition in curd due to addition(3) preserves the food preventing the entry of(4) increases life time of curd as they prevent	water	r, air and micr		anisms.	
40.	The SLS certificate given to a food product ensemble (1) its nature can be remained unchanged for a (2) it is in a suitable condition for export.	sures a long	that, g time.			

(3) it is a product obtained from organic farming.

(4) it is hygienically safe and conforms to quality standards.

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

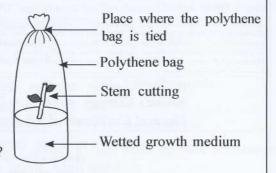
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> කෘෂි හා ආහාර තාක්ෂණය I, II விவசாயமும் உணவுத் தொழினுட்பவியலும் I, II Agriculture and Food Technology I, II

Agriculture and Food Technology II

- * Answer five questions only, including the first question and four other selected questions.
- A farmer in the low country wet zone of Sri Lanka owning a coconut cultivated land of 2 hectares and an adjoining small paddy field, thought of producing a greater part of food consumed in his family through his home garden itself.
 - (i) As the soil of this land has turned acidic due to erosion, name a substance that should be added to make it suitable for cultivating crops.
 - (ii) State two methods that can be adopted to conserve the soil in that land.
 - (iii) Name two fruit crops that can be cultivated as intercrops of the coconut cultivation.
 - (iv) Name an insect pest that damages the coconut cultivation in the land.
 - (v) State two types of leafy vegetables that can be grown in the part of the land where drainage is poor.
 - (vi) Name two drainage systems (patterns) which could be used to improve the drainage in that part.
 - (vii) (a) Name an Indian cattle breed suitable to rear in this land to obtain milk.
 - (b) Write two cattle feeds prepared by conserving grass.
 - (viii) Name an insect pest sucking sap from the paddy seeds in milking stage.
 - (ix) State two measures that can be taken to control weeds in the paddy cultivation.
 - (x) State two advantages of adding organic manure to the soil.
- 2. When there is no enough rainfall, irrigation is essential for cultivating crops.
 - (i) (a) Write two types of soil water contained in the soil.
 - (b) What are the types of water present in soil at the field capacity?
 - (ii) Write four ways by which water is removed from the soil in a crop cultivation.
 - (iii) Write three methods of conserving water supplied to a cultivated land.
- 3. Some plants produce vegetative propagules to reproduce their offspring. They are used as planting materials.
 - (i) (a) Name four natural vegetative propagules.
 - (b) State two growth hormones used to stimulate rooting in stem cuttings.
 - (ii) State two advantages and two disadvantages separately in vegetative propagation.

- (iii) The figure indicates a structure used for rooting a stem cutting. Here, a closed environment is created by adding water to the growth medium and tying the mouth of the polythene bag.
 - (a) What is the name of this structure?
 - (b) What is expected by creating a closed environment when this structure is prepared?



- 4. Pest control is important to obtain a greater yield of high quality in crop cultivation.
 - (i) (a) In a paddy cultivation, circular damaged areas were observed with dried leaves and dead plants. By what name is this pest damage known?
 - (b) Name the insect pest causing this condition.
 - (c) State a measure that can be taken to control this.
 - (ii) (a) Name the pathogen that causes the mosaic disease in crops.
 - (b) State two crops which are prone to mosaic disease.
 - (iii) (a) Classify weeds according to their morphology.
 - (b) Write three damages caused by weeds to crops.
- 5. The nutrients in the soil are gradually decreased because of frequent cultivation. To restore this land, fertilizers should be added.
 - (i) (a) Write separately a nutrient provided by air and a nutrient provided by water to a plant.
 - (b) State two types of chemical fertilizers which provide the phosphorus nutrient.
 - (ii) (a) Write two uses of nitrogen in crop cultivation.
 - (b) State two nitrogen deficiency symptoms that can be observed in plants.
 - (iii) Write four unfavourable effects of using agrochemicals on the environment.
- 6. It is important that the yield of crops is harvested on time and the surplus yield is preserved.
 - (i) State the impact of harvesting on the yield of vegetables and fruits in the following instances.
 - (a) harvesting before the recommended stage of maturity
 - (b) harvesting after the recommended stage of maturity
 - (c) harvesting at times of rain or dew
 - (ii) Write four importance of food preservation.
 - (iii) State two preservative substances recommended for preserving food.
- 7. Methods of animal rearing, animal feed, animal diseases and their control measures are important in animal husbandry at commercial level.
 - (i) (a) Name the most commonly used method of poultry rearing in commercial scale in Sri Lanka.
 - (b) Write four advantages of that method.
 - (ii) (a) Name a viral disease of poultry.
 - (b) State two symptoms of that disease.
 - (c) Write two methods of controlling that disease.
 - (iii) Write four caring measures that should be afforded to a calf on the first day of its birth.

* * *