සියලු ම හිමිකම් ඇවිරිණි / முழுப் பதிப்புரிமையுடையது / $All\ Rights\ Reserved$]

இ ලංකා විශාය දෙපාර්තාමේන්තුව මූ ලංකා විස**ි ලංකා මිනාගි ලෙපාර්තමේන්තුව**න්තුව මූ ලං இவன்கைப் படு வந்த திணைக்களாடுவள்ளனர் இடன்றத் திணைக்கார் இன்கைப்பட்டிரு இன்கொள்ளார். Department of Evaminations, Sri Larka D**இஸங்கைப் Evaly விறுக்கு இதினைக்களாம்** nt of Eva இருகா செல දෙපාර්තමේන්තුව මූ ලංකා වනය දෙපාර්තමේන්තුව මූ ලංකා වනය දෙපාර්තමේන්තුව මූ ලං இலங்கைப் பறி சைத் திணைக்களாடுகள்கள**் Department of Examplations, Sti Larka** வக்களர் இலங்கைப் பறி சைத் திணைக்களர்

අධායන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2015 දෙසැම්බර් கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2015 டிசெம்பர் General Certificate of Education (Ord. Level) Examination, December 2015

කෘෂිකර්මය හා ආහාර තාක්ෂණය

விவசாயமும் உணவுத் தொழினுட்பவியலும் I, II

Agriculture and Food Technology

පැය තුනයි மூன்று மணித்தியாலம் **Three hours**

Agriculture and Food Technology I

I. II

I, II

Note:

- (i) Answer all questions.
- (ii) In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which you consider as correct or most appropriate.
- (iii) Mark a cross (X) on the number corresponding to your choice in the answer sheet provided.
- (iv) Further instructions are given on the back of the answer sheet. Follow them carefully.
- 1. Out of the following, in which crop is grown in the largest area in Sri Lanka?
 - (1) Tea
- (2) Coconut
- (3) Rubber
- (4) Paddy
- 2. Nutritional requirements of a person vary with their activities. Out of the following which person requires the highest amount of energy generating food?
 - (1) School children

(2) Men doing heavy work

(3) Breast feeding mothers

- (4) Young ladies
- 3. The main reason for the self sufficiency of Sri Lanka during the ancient King's reign was,
 - (1) practicing high technology in irrigation.
 - (2) cultivating hybridized crops.
 - (3) producing pest and disease resistant varieties of crops.
 - (4) chemical fertilizer free crop cultivation.
- 4. The role of tanks is vital for agriculture in Sri Lanka. The structure which used to remove excess water from a tank is,
 - (1) salapanawa.
- (2) biso-kotuwa.
- (3) sluice gate.
- (4) spillway.
- 5. A farmer selected seeds to start the cultivation. He soaked the seeds in water about 12 hours and planted them in the field. By soaking he expected to
 - (1) control diseases.

(2) control insects.

(3) induce germination.

- (4) acquire drought resistancy.
- 6. Relative humidity of the atmosphere is a factor that affects crop cultivation. When relative humidity of the atmosphere increased,
 - (1) transpiration rate of plants is increased.
- (2) plant diseases and pest damages are increased.
- (3) water absorption of plant roots is increased. (4) storage period of cereals is increased.
- 7. Due to the influence of various factors, parent rock is withered and parent material is formed. In which horizon (layer) of the soil profile, this parent material exists?
 - (1) In horizon A
- (2) In horizon B
- (3) In horizon C
- (4) in horizon O
- 8. A student planted a chilli seedling in a pot and added surplus water to it. The water that retains in the soil after draining excess water from the hole in the bottom of the pot is/are
 - (1) capillary water and gravitational water.
- (2) hygroscopic water and gravitational water.
- (3) hygroscopic water and capillary water.
- (4) hygroscopic water only.
- 9. A farmer applied a nitrogen fertilizer to the vegetable cultivation which was one month old, and irrigated. After a while a heavy rain occurred. He thought that all the fertilizer he added was washed out and he was frustrated. But after few days he observed that the crop was grown well and he realized that all the fertilizers were not washed out. The reason for this incidence is
 - (1) soil cation exchange.

(2) soil structure.

(3) soil pH.

(4) soil texture.

10.	(1)	the repellant plants that could be used to minimize pest damages in environmental friendly crop cultivation at a winged bean and green gram. (2) chrysanthemum and sun flower. (3) balsam and Ixora. (4) brinjal and okra.					
11.	not (1)	A student obtained seeds from a ripped tomato fruit and planted them without any treatment, but they wer not germinated during the relevant period. The reason for this would be (1) hard seed coats. (2) impermeable seed coats. (3) presence of inhibitors. (4) dormancy of embryos.					
12.	In an experiment carried out to determine germination percentage by Petri dish method, 80 seeds were used. Out of those, 60 were germinated. The germination percentage of this seed sample was, (1) 45%. (2) 60%. (3) 75%. (4) 85%.						
13.	Three statements regarding the selection of scion for budding plants are listed below. A - should be obtained from a mother plant with good quality. B - should be obtained from a plant belongs to the family of the stock plant. C - should be obtained from a plant with a strong root system. Out of the above, the correct statements are, (1) A and B. (2) A and C. (3) B and C. (4) All A, B and C.						
14.	A	table	e on land preparation implemen	• •			
	Γ		Primary tillage implements		Inter cultivation implements		
	İ	Α	mammoty	three point cultivator	disc harrow		
	-	В	hand fork	disc plough	Japanese rotary weeder		
		С	trampling fork	disc harrow	chopping hoe		
	ſ	D	disc plough	mould board plough	disc harrow		
	The row that all the implements mentioned correctly is (1) A. (2) B. (3) C. (4) D.						
15.	By sending properly processed crops harvests to the market, losses are reduced and farmers can get highe income. Which is the correct order of steps of sending harvest from farm to market? (1) cleaning and selecting —> grading —> packing —> transportation (2) grading —> cleaning and selecting —> packing —> transportation (3) selecting and grading —> cleaning —> transportation —> packing (4) cleaning —> transportation —> packing						
16.	The objectives of secondary tillage are (1) turning soil and pulverising. (2) pulverising and levelling. (3) controlling weeds and pulverising. (4) turning soil and controlling weeds.						
17.	The respective order of recommended planting beds for budded mango plants and potatoes are (1) raised beds and sunken beds. (2) ridge and furrow beds and sunken beds. (3) sunken beds and single planting holes. (4) single planting holes and ridge and furrow beds.						
	(1)	e re rai:	ntrolling weeds and pulverising spective order of recommended sed beds and sunken beds.	(4) turning soil and planting beds for budded mar (2) ridge and furro	d controlling weeds. ngo plants and potatoes are w beds and sunken beds.		
18.	(1) (3) The	e re rai: sur e nu	spective order of recommended sed beds and sunken beds. aken beds and single planting	d planting beds for budded mar (2) ridge and furro holes. (4) single planting	d controlling weeds. Ingo plants and potatoes are w beds and sunken beds. holes and ridge and furrow beds.		
	(1) (3) The (1) Wh (1)	e re rais sur e nu lov	spective order of recommended sed beds and sunken beds. Inken beds and single planting arseries prepared in order to myland nurseries. (2) dapog not set the respective order of crops allies, okra, maize and cowpean	d planting beds for budded mar (2) ridge and furro holes. (4) single planting unimize root damages of seedli urseries. (3) nursery beds. which are suitable for quadruple	d controlling weeds. Ingo plants and potatoes are w beds and sunken beds. holes and ridge and furrow beds. Ing when transplanting is (4) neridoko nurseries. Ingo plants and potatoes are crop rotation method? Ingo plants and potatoes are ram, sweet potatoes are ingo plants are ram, and potatoes are ingo plants and potatoes are ing		
19.	(1) (3) Tho (1) Wh (1) (3) Tho sys (1)	e re rais sur e nu lov nat i chi bar e mutem clo	spective order of recommended sed beds and sunken beds. Inken beds and single planting arseries prepared in order to myland nurseries. (2) dapog not set the respective order of crops allies, okra, maize and cowpeanana, cowpea, manioc and wincost suitable crops to grow far	d planting beds for budded mar (2) ridge and furro holes. (4) single planting ainimize root damages of seedli arseries. (3) nursery beds. which are suitable for quadruple (2) maize, green greed bean. (4) papaw, chillie,	d controlling weeds. Ingo plants and potatoes are w beds and sunken beds. holes and ridge and furrow beds. Ing when transplanting is (4) neridoko nurseries. Ingo protation method? Ingram, sweet potato and okra. Ingram and maize. Ingram fence under multi storeyed cropping		
19. 20.	(1) (3) The (1) Wh (1) (3) The sys (1) (3) It is	e re rais sur e mu lov nat i chi bar e mu clo got is re son	spective order of recommended sed beds and sunken beds. Inken beds and single planting arseries prepared in order to myland nurseries. (2) dapog not set the respective order of crops and cowpea, mana, cowpea, manioc and winter the course suitable crops to grow far are oves, pepper and banana.	d planting beds for budded mar (2) ridge and furro holes. (4) single planting dinimize root damages of seedli urseries. (3) nursery beds. which are suitable for quadruple (2) maize, green gree	d controlling weeds. Ingo plants and potatoes are we beds and sunken beds. holes and ridge and furrow beds. Ing when transplanting is (4) neridoko nurseries. Ingo crop rotation method? Ingram, sweet potato and okra. Ingram and maize. Ingram fence under multi storeyed cropping anate and guava. Ingram mango. Inting medium in soilless culture. The		

- 22. The choice that includes broad-leaved weeds only is,
 - (1) wedelia, mimosa, eichhornia.
- (2) illuk, gandapana, monarakudumbiya.
- (3) thunessa, kalanduru, mana.
- (4) maruk, bajiri, pathenium.
- 23. The leaves of a banana plant were small and closed to each other and growth was retarted. The reason for this would be a
 - (1) bacterial infection.

(2) virul infection.

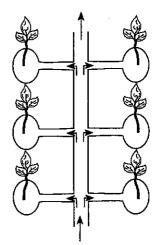
(3) fungal infection.

- (4) nematodal infection.
- 24. The main factor for soil erosion in Sri Lanka is
 - (1) waves of the sea.

(2) moving water.

(3) wind with high velocity.

- (4) animal activities.
- 25. According to the physical classification of land use, which is recommended to grow in very steeply lands?
 - (1) plantation crops.
- (2) pasture grass.
- (3) forest cultivations. (4) fruit crops.
- 26. Out of the following fertilizers, the incomplete fertilizer mixture is,
 - (1) basal fertilizer mixture used in paddy cultivation.
 - (2) top dressing mixture used in paddy cultivation.
 - (3) Alen Cooper's mixture.
 - (4) Albert's mixture.
- 27. The irrigation method shown in this diagram is
 - (1) furrow irrigation.
 - (2) border irrigation.
 - (3) ring irrigation.
 - (4) basin irrigation.



- 28. The farm animal that could be reared successfully with low expenditure, in shrubby lands of the dry zone in Sri Lanka is
 - (1) buffalo.
- (2) goat.
- (3) fowl.
- (4) pig.
- 29. In the following table, type of farm animals, their common diseases and causal agents are mentioned.

	Farm animal	Disease	Causal agent
Α	Cattle	Mastitis	Fungus
В	Fowl	Raniket	Virus
С	Cattle	Foot and mouth disease	Bacteria
D	Fowl	Anthrax	Virus

The correct row of the above is

- (1) A.
- (2) B.
- (3) C.
- (4) D.
- 30. Several statements regarding the objectives of having 60 days dry period for cows are mentioned below.
 - A To acquire required nutrition for foetus.
 - B Facilitating the calving of next calf.
 - C Avoiding feebleness of cow.

Out of these, the correct statements are

- (1) A and B.
- (2) A and C.
- (3) B and C.
- (4) all A, B and C.
- 31. The conserved cattle food prepared by cutting grasses at the beginning of flowering stage, drying them in air to retained the green colour is
 - (1) hay.
- (2) silage.
- (3) fodder grass.
- (4) pasture grass.

32.	To control shoot and fruit borer of brinjal, the recommended control measure is (1) spraying contact insecticides. (2) spraying soap water. (3) spraying systemic insecticide. (4) introducing red ants.					
33.	Out of the following groups of food, the group that contains highest amount of vitamin A is (1) nelli, orange, papaw and mango. (2) tomato, green gram, soya bean and kurakkan. (3) ground nut, rice with bran, pineapple and fish liver. (4) carrot, papaw, egg yolk and green leaves.					
34.	In which answer the correct steps of producing curd are stated? (1) filtering — pasteurization — adding rennet — putting into containers — keeping for fermentation (2) adding rennet — filtering — pasteurization — putting into containers — keeping for fermentation (3) pasteurization — filtering — putting into containers — adding rennet — keeping for fermentation (4) filtering — adding rennet — pasteurization — putting into containers — keeping for fermentation					
35.	The diagram dipicts a drainage system used to remove excess water from a cultivated land. This system is known as (1) grid iron. (2) parallal. (3) herring bone. (4) kondol drains.					
36.	The cation exchange capacity of four soil samples named as A, B, C and D are 20, 24, 30, 35 milli equivalents / 100 grams of soil respectively. Out of these the most fertile soil is, (1) A. (2) B. (3) C. (4) D.					
37.	The most suitable stage for harvesting papaw is the stage that the, (1) peel colour turns from green to yellow. (2) peel get shining appearance. (3) peel get cracked appearance. (4) area around the stalk of the fruit turns green to yellow.					
8.	Which percentage of body weight of a calf that should be fed as milk, when rearing separately from its mother? (1) 6% (2) 10% (3) 15% (4) 18%					
9.	The characteristics of a litter used in deep litter system of poultry management are exist as (1) dusty form and should absorb moisture. (2) larger particles and should have sharp edges. (3) smaller particles and should not be a food of poultry. (4) smaller particles and should be a food of poultry.					
Ю.	A student purchased a packet of milk from the market. It was indicated as UHT on the label and instructed to keep in a refrigerator after open it. The packet contains (1) pasteurized milk. (2) sterilized milk. (3) unpreserved milk. (4) skimed milk.					
	* *					

(සියලු ම හිමිකම් ඇවිරිනි / முழுப் பதிப்புரிமையுடையது / All Rights Reserved]

ලකා විශාව දෙකුවන්න මෙන්තුව ලි. ලකා විශ**ල කුරුන්වම් මාගේ ලදපාර්ත මෙන්නාව**ිතුව ලි. ල හරුනෙන් 140 කාල නිකානම් සංකෘතිය නොක් මාගේ නිකානම් කුරුන්නේ වැඩි කාල නිකානම් නොක්ෂ නිකානම් නොක්ෂ Ocpartment of Examinations, Sri Lanka D**இலங்கை Exelfit ன்சத்** S**திணைக்களம்** nt of Exa ලී ලංකා විභාග දෙපාර්තවේන්තුව ලී ලංකා විභාග දෙපාර්තවේන්තුව ලී ලංකා විභාග දෙපාර්තවේන්තුව ලී ලංක இலங்கைப் பரி மைத் திணைக்களாஇணைகள் **Department of Examinations, Sri Lanka** wak-களர் இலங்கைப் பரி வசக் குணைக்கள අධායයන පොදු සහතික පතු (සාමානා පෙළ) විභාගය, 2015 දෙසැම්බර් கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2015 டிசெம்பர் General Certificate of Education (Ord. Level) Examination, December 2015 I. II

කෘෂිකර්මය හා ආහාර තාක්ෂණය I, II விவசாயமும் உணவுத் தொழினுட்பவியலும் I, II

Agriculture and Food Technology

Agriculture and Food Technology II

* Answer five questions only, selecting the first question and four others.

- 1. In order to get high profit margin from agricultural enterprises, it is important to pay more attention to sustainability of land and on effective management practices in crop cultivation and animal husbandry.
 - (i) Write two advantages of basic land preparation in crop cultivation.
 - (ii) (a) What is 'soil erosion'?
 - (b) Write two agricultural methods used in soil conservation.
 - (iii) (a) What is meant by irrigation in crop cultivation?
 - (b) Name two surface irrigation methods used in crop cultivation.
 - (iv) Write two methods that would be followed in soil water conservation.
 - (v) (a) Mention two factors required for seed germination.
 - (b) What is 'seed dormancy'?
 - (vi) (a) Name an insect pest that damages commonly to cucurbitaceae fruits.
 - (b) Explain its damage done to the above fruits.
 - (vii) Name two dairy cattle breeds recommended to rear in the dry zone of Sri Lanka.
 - (viii) Name two milk products that are produced by using micro-organisms.
 - (ix) (a) Name a common bacterial disease in poultry.
 - (b) Write two symptoms of that disease.
 - (x) (a) Write two advantages of rearing poultry in deep litter system.
 - (b) Write two food substances that could be added to provide protein in poultry rations.
- 2. Producing new plants by using other parts of the plant excluding seeds is vegetative propagation.
 - (i) Write four advantages of vegetative propagation.
 - (ii) Mention two characteristics of a plant that could be used as a stock plant.
 - (iii) Describe wedge grafting procedure of a mango seedling, with labelled diagrams.
 - (iv) Mention two substances that are used to induce rooting of stem cuttings.
- 3. Weed control is essential for successful crop cultivation.
 - (i) (a) Mention four common characteristics of weeds.
 - (b) Write four damages caused by weeds in crop cultivation.
 - (ii) Write two advantages of integrated weed control.
 - (iii) Describe briefly:
 - (a) Alien invasive weeds
 - (b) Contact weedicides

- 4. When applying fertilizer to the crops, they are usually applied to the soil, while sometimes applied them as foliar applications in liquid form.
 - (i) Mention two methods of applying chemical fertilizers to the soil in crop cultivation.
 - (ii) Write four measures that could be taken to increase the efficiency of chemical fertilizer added to the soil.
 - (iii) (a) Explain what is 'direct fertilizer' and 'mixed fertilizer'. State one example for each of them.
 - (b) Name two natural liquid fertilizers that could be prepared domestically.
- 5. Plant diseases could be diagnosed on the basis of the symptoms shown by the plants.
 - (i) (a) Write four common symptoms of fungal diseases in crops.
 - (b) Name two fungal diseases of paddy.
 - (ii) Mention four preventive methods that could be used to get rid of plant diseases.
 - (iii) (a) Name a common disease found in nursery stage of solanaceae crops.
 - (b) Mention two symptoms of that disease.
 - (c) State two control measures that could be taken to prevent that disease.
- 6. Various cropping systems are practiced in order to obtain high yields in crop cultivation.
 - (i) (a) What is 'integrated farming'?
 - (b) Mention four advantages of integrated farming.
 - (ii) Mention four importance of agro forestry.
 - (iii) (a) Mention two advantages of growing crops under controlled environment.
 - (b) Name two types of houses (structures) that are used in crop cultivation under controlled environment.
- 7. High profits could be obtained by proper management practices in animal husbandry.
 - (i) (a) What is meant by 'artificial insemination' in cattle management?
 - (b) Mention four advantages of artificial insemination.
 - (ii) (a) Write four advantages of culling in poultry management.
 - (b) Mention four characteristics of poultry eggs which are suitable for incubation.
 - (iii) Mention
 - (a) the causal organism
 - (b) two symptoms
 - (c) two control measures

of coccidiosis in fowl.



පුශ්නපතු පොත් ගෙදරටම ගෙන්වා ගන්න ඔන්ලයින් ඕඩර් කරන්න

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