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Agriculture and Food Technology

පැය නූනයි மூன்று மணித்தியாலம் Three hours

Agriculture and Food Technology I

Note:

- (i) Answer all questions.
- (ii) In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is 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. The multi-purpose development scheme initiated first in Sri Lanka was
 - (1) Mahaweli scheme.

(2) Nilwala scheme.

(3) Galova scheme.

- (4) Moragahakanda scheme.
- 2. The item that has been constructed in order to avoid damages to the bank of a lake from the waves is
 - (1) Biso Kotuwa.
- (2) Sluice gate.
- (3) Salapanawa.
- (4) Spill gate.
- 3. The weather parameter that can be determined by readings collected from wet and dry bulb thermometer is
 - (1) atmospheric temperature.

(2) light intensity.

(3) rainfall.

- (4) relative humidity.
- 4. A food item that should be included in a vegetarian diet in order to provide protein to the body is
 - (1) potato.
- (2) cowpea.
- (3) carrot.
- (4) rice.
- 5. The districts which get rainfall mainly by south-west monsoon rain are

 - (3) Anuradhapura, Jaffna and Mullaitivu.
 (4) Mannar Vavuniva and Crincomalee.
- 6. Physical properties of soil are
 - (1) soil texture and soil salinity.
- (2) soil acidity and alkalinity.
- (3) cation exchange capacity and soil texture. (4) soil texture and soil structure.
- 7. The great soil group that is commonly distributed in Polonnaruwa, Anuradhapura and Vavuniya districts is
 - (1) red yellow podsolic soil.
- (2) reddish brown latosolic soil.

(3) non-calcic brown soil.

- (4) reddish brown soil.
- 8. Consider the following factors
 - A elevation
 - B soil group of the area
 - C distance from the equator
 - D vegetation of the area

Out of the above factors, those that affect the atmospheric temperature of a particular area are

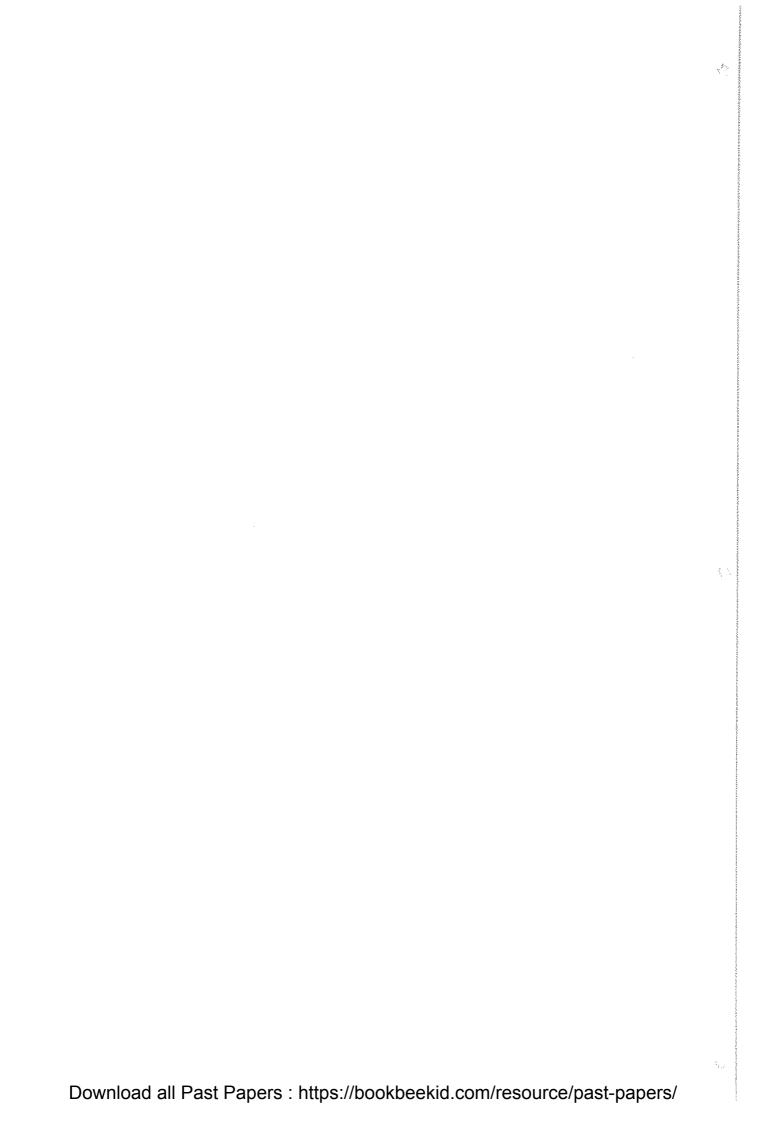
- (1) A, B and C only.
- (2) A, C and D only.

(3) B, C and D only.

- (4) All A, B, C and D.
- 9. The equipment that could be used in both 'basic land preparation' and 'inter-cultivation' are
 - (1) rotavator and disc plough.
- (2) disc harrow and mamoty.
- (3) mamoty and mamoty fork.
- (4) hand fork and hand shovel.

10.	What is the correct choice when the seeds named below as A, B and C are arranged in descending order on the basis of their seed size? A - Thampala (Amaranthus) B - Brinjal					
	C - Okra (1) A, B, C (2) B, A, C	(3) B, C, A	(4) C, B, A			
11.		(2) maize, kurakkan and (4) brinjal, chillie and t				
12.	The pulse crop that shows hypogeal germination in (1) chick pea. (2) green gram.	is (3) bean.	(4) cowpea.			
13.	The planting materials used in ginger and turmerial (1) bulbs. (2) bulbils.	ic cultivation are (3) tubers.	(4) rhizomes.			
14.	The standard width of raised nursery bed is (1) 80 cm. (2) 100 cm.	(3) 120 cm.	(4) 140 cm.			
15.	The process of separation of soil particles from the	he earth, transportation a	and deposition of them in another			
	place is known as (1) soil structure. (2) soil genesis. (3)	(3) soil erosion.	(4) rock weathering.			
16.	i. The substance that should be added to an acidic	soil in order to neutral (2) organic matter.	ize its acidity is			
	(*) F - · · - · · · · · · · · · · · · · · ·	(4) cow-dung.				
17.	7. Two micro-nutrients essential for plant growth are (1) Zn and Mn. (2) C and N. (e (3) Mg and K.	(4) Ca and S.			
18.	3. Leaf mosaic, reduction of green colour of leaves, (1) fungal infections. (2) bacterial infections. (, vein clearing and stun (3) viral infections.	ting of plants can be observed in (4) nematode infections.			
19.	This diagram depicts a set up that is used in insection The pest that is controlled by this is (1) the aphid. (2) the fruit fly. (3) aulacophora. (4) the epilachna.	ct pest management.				
20.	1. Flowering of some plants are affected by the da (1) photosynthesis. (2) photoperiodism. (ay length of the day. T (3) vernalisation.	This phenomenon is known as (4) transpiration.			
21.	1. Out of the following plants, an alien invasive wee (1) Kuppameniya. (2) Kalanduru. (ed is (3) Videlia.	(4) Eththadi.			
22.	In this process, weeds are suppressed because the (1) aeration. (2) water.	ng straw, dried leaves, ricey do not get required (3) light.	ce husk, coir dust etc. as a mulch. (4) nutrition.			
23.	3. The suitable irrigation method that can be used in (1) flood irrigation. (2) basin irrigation.	n cultivation in a sloping (3) sprinkler irrigation	g land with high wind velocity is (4) drip irrigation.			
24.	4. Out of the following, the most environmental frie (1) polythene. (2) polypropylene.	iendly food packing sub (3) cardboard.	stance is (4) laminated aluminium sheets.			
25.	5. Water soluble, brick red coloured, crystallized cher (1) urea. (2) Eppawala apatite.	mical fertilizer which co (3) muriate of potash.	mmonly used in crop cultivation is (4) ammonium sulphate.			
26.	6. Paddy seedlings obtain by a Dapog nursery shou (1) 5 - 7 days. (2) 10 - 14 days.	uld be transplanted in the (3) 21 - 24 days.	ne field at the age of (4) 30 - 35 days.			
27.	7. Under which deficiency of plant nutrients that the	e crop shows poor grow	th, stunting and yellowing of older			
	leaves? (1) Nitrogen. (2) Phosphorus.	(3) Potassium.	(4) Calcium.			

1					
28	 The best condition required for the conversal (1) dry and acidic condition. (2) aeration, moisture and neutralised condition. (3) aeration and acidic condition. (4) dry and neutralised condition. 	ersion of plant and animal substances into compost is a/an dition.			
29	 The reason for maintaining a recommended spacing for each crop in crop cultivation is (1) to avoid the competition for light, water and nutrients. (2) to increase the cation exchange capacity of the soil. (3) to facilitate after care operations. (4) to reduce transpiration in plant. 				
30	A food that is preserved by changing the(1) curd.(3) salted lime (lunudehi).	pH value of the food medium is (2) pickle. (4) fruit jam.			
31.	In potato plants that were grown in an infelater showed a burnt appearance. The reas (1) Nitrogen deficiency. (3) Potassium deficiency.	ertile soil, the edges of the leaves turned into yellow colour on for this would be (2) Phosphorus deficiency. (4) Magnesium deficiency.	and		
32.	The fertilizer that should be applied as a (1) rock phosphate. (3) Triple superphosphate.	quick supplement of phosphorus to a plant is (2) Eppawala apatite. (4) compost.			
33.	The planting medium which is most suitable (1) coirdust. (2) coir.	ole to fill hanging bags in soil-less culture is (3) fine sand. (4) perlite.			
34.	According to the categorization of physical as number 1 is (1) paddy. (2) plantation crop	land use, what is recommended to grow in an area categories. (3) forests. (4) grass.	ized		
35.	An Indian cattle breed that can be reared for (1) Kilari. (2) Jersey.	() 0-11101			
36.	Consider the following statements on the dA - Dry period is the duration that milking B - The standard dry period of a cow is CC - Due to the dry period of a cow the gOf the above, the correct statements are (1) A and B only. (3) B and C only.	lry period of milking cows. g is not done before the calving. 60 days. growth of the embryo is enhanced. (2) A and C only.			
37.	A poultry disease caused by a protozoa is (1) pullorum. (2) coccidiosis.	(4) All A, B and C.(3) gumboro.(4) Ranikhet.			
38.	A roughage that could be fed to farm anim (1) maize seeds. (2) coconut poonac	nals is			
	Out of the following, which is the correct of the temperature that meat should be sto (2) Sterilized milk is produced by spray dropological in producing pasteurized milk, microorg (4) In producing yoghurt fungi are used to	statement? ored under deep freezing condition is -18°C. ying of fresh milk. anisms are used.			
	Some statements on colostrum are given bel A - Colostrum has laxative effects. B - Immunity of calves is increased by fee C - Colostrum should be removed from the Out of these, the true statements are (1) A and B only. (3) B and C only.				
	·	* *			



ซิตอู ซ ซิซิลซ์ ซุซฮิติฮ์] (เคเลูน์ นฐินันที่เดอนุดาเมฐ JAll Rights Reserved)

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இடிக்கு நடிக்கு நடிக

Agriculture and Food Technology II

- * Answer five questions only, including the first question and four others.
- In agriculture, it is expected to get a maximum production in crop cultivation and animal husbandry. For this, a good management is needed from the beginning of crop cultivation and animal husbandry until the products are supplied to the market.
 - (i) Mention two activities done under basic land preparation in crop cultivation.
 - (ii) Write two objectives of intercultivation.
 - (iii) Write two advantages of planting seedlings obtained from a nursery in crop cultivation.
 - (iv) Mention two methods of sterilizing soil for nurseries.
 - (v) Give examples for **two** vegetable crops in the family fabaceae and **two** vegetable crops in family cucurbitaceae separately.
 - (vi) Write two reasons for seed dormancy.
 - (vii) Mention two surface irrigation methods applied in crop cultivation.
- (viii) Name **two** types of edible underground stems and give an example for a crop with each type of underground stem.
- (ix) Mention two characteristics of eggs which are suitable for incubation.
- (x) Mention two methods of fruit preservation.
- 2. Water is an essential factor for crop cultivation and proper water management is important.
 - (i) Mention three facts that should be considered in selecting a method of irrigation for crop cultivation.
 - (ii) (a) Mention three means of water loss from soil.
 - (b) Write two activities that could be done for soil water conservation.
 - (iii) Mention two issues occurred due to poor drainage in cultivating lands.
- 3. Organic and inorganic fertilizer are applied in crop cultivation in order to nurture the crops properly.
 - (i) Mention four macronutrients essential for crops growth.
 - (ii) Write **three** measures that should be taken to get maximum use of chemical fertilizer which are applied to the crops.
 - (iii) Write three advantages of applying organic fertilizer instead of applying chemical fertilizers to a crop cultivation.
- 4. Seedling and vegetatively propagated plants are used in crop establishment.
 - (i) Mention three advantages of vegetative propagation.
 - (ii) Some seeds are treated before planting. Explain the reasons for the following seed treatments.
 - (a) Washing off the jelly like substances around tomato seeds.
 - (b) Mixing Kurakkan seeds with sand.
 - (c) Inoculation soya bean seeds by 'Nitrogen S' bacteria.
 - (iii) Describe the procedure of air layering with a labelled diagram.

[see page five

- 5. In crop cultivation, the existence of soil water and soil air in a suitable amount is important.
 - (i) Name the three main types of soil water exist in the soil.
 - (ii) What are the types of soil water at the following soil moisture levels?
 - (a) at saturation level.
 - (b) at the field capacity.
 - (c) at the permanent wilting point.
 - (iii) (a) Write two importance of soil air in crop cultivation.
 - (b) Mention two measures that could be taken to improve soil aeration.
- **6.** Insect pest damages can be identified as a reason for the reduction of crop yields qualitatively and quantitatively in crop cultivation.
 - (i) (a) Give **two** examples each for the insects causing direct damages on crops in the following ways.
 - (A) Biting and chewing plant tissues.
 - (B) Piercing the tissues and sucking the sap.
 - (b) Write an indirect damage caused by piercing and sucking insects.
 - (ii) Write four non-chemical methods of insect pest management.
 - (iii) Write three protective measures, that should be taken when handling chemical pesticides.
- 7. In cattle management, it is important to produce clean milk.
 - (i) Write four measures that should be followed in order to get a clean milk production.
 - (ii) (a) Mention two heat signs of a cow.
 - (b) Write two treatments that should be done to a calf within the first day of calving,
 - (iii) Write:
 - (a) the causal organism
 - (b) the symptoms
 - (c) preventive measures

of mastitis in cattle.

* * *