

## නව නිර්දේශය / புதிய பாடத்திட்டம் / New Syllabus

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව  
 இலங்கைப் பரீட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம் இலங்கைப் பரීட்சைத் திணைக்களம்  
 Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka Department of Examinations, Sri Lanka

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2019 අගෝස්තු  
 கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2019 ஓகஸ்ட்  
 General Certificate of Education (Adv. Level) Examination, August 2019

ගෘහ ආර්ථික විද්‍යාව I  
 மனைப் பொருளியல் I  
 Home Economics I

28 E I

22.08.2019 / 0830 – 1030

පැය දෙකයි  
 இரண்டு மணித்தியாலம்  
 Two hours

## Instructions:

- \* Answer **all** the questions.
- \* Write your **Index Number** in the space provided in the answer sheet.
- \* Read the instructions given on the back of the answer sheet 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)** in accordance with the instructions given on the back of the answer sheet.

1. An element and a principle of designing are respectively
  - (1) rhythm and texture.
  - (2) shape and proportion.
  - (3) unity and rhythm.
  - (4) emphasis and colour.
  - (5) texture and shape.
2. Select the correct statement regarding exterior and interior designing.
  - (1) Long and broad furniture is suitable for the interior space of a room with high walls.
  - (2) The way of arranging the space for movement according to the landscape is termed as circulation.
  - (3) Use of translucent glass for the roof is the most suitable to obtain natural light in to a room.
  - (4) Heat of the interior could be decreased by using cement blocks for the walls of a building.
  - (5) In exterior designing, a soft landscape could be obtained by trimming the plants into different shapes.
3. Select the correct statement from the following.
  - (1) Symmetric balance is shown by placing two different objects on a cabinet equidistant from the centre.
  - (2) Secondary colours are formed by mixing two primary colours in different proportions.
  - (3) The same feature shown in different forms in a design is termed as repetitive rhythm.
  - (4) Unity is shown through harmony in shape, colour and texture of accessories.
  - (5) Proportion is shown by placing two suites of furniture closer to each other in a small room.
4. Which is the **incorrect** statement regarding construction of buildings and landscaping?
  - (1) The basic constructive idea in the mind of a designer is termed as context.
  - (2) The interior should be designed so as to maintain the utility.
  - (3) In designing, the shape, size and height should be emphasized.
  - (4) In exterior designing, waterfalls and ponds are considered as accessories.
  - (5) Building houses with wattle and daub walls and roofs with coconut leaves are considered as the beginning of landscaping in Sri Lanka.
5. What is the group that contains two carbohydrates?
  - (1) Mucin and Collagen
  - (2) Collagen and Elastin
  - (3) Lignin and Pectin
  - (4) Mucin and Lignin
  - (5) Elastin and Pectin

6. Two **non** essential amino acids are

- (1) Threonine and Proline. (2) Leucine and Tyrosine. (3) Alanine and Hystidine.  
(4) Arginine and Valine. (5) Cysteine and Serene.

7. From the following, the Omega-3 fatty acid is

- (1) Linolenic acid. (2) Palmitic acid. (3) Arachidonic acid.  
(4) Linoleic acid. (5) Oleic acid.

8. Pyridoxine and Folic acid included in B group vitamins are identified respectively as

- (1) vitamin B<sub>5</sub> and B<sub>7</sub>. (2) vitamin B<sub>6</sub> and B<sub>7</sub>. (3) vitamin B<sub>6</sub> and B<sub>9</sub>.  
(4) vitamin B<sub>9</sub> and B<sub>10</sub>. (5) vitamin B<sub>10</sub> and B<sub>12</sub>.

9. From the following, which statement is **not** a function of water?

- (1) Regulate the body temperature.  
(2) Helps in the digestion and absorption of nutrients.  
(3) Maintains the electrolyte balance of the body.  
(4) Controls the stability of the tissues.  
(5) Acts in the excretion of excessive vitamin E and K from the body.

10. Following statements give the nutritional value of some food items.

- A - Contain calcium and phosphorous  
B - Rich in vitamin A  
C - Contain vitamin B<sub>2</sub> and B<sub>12</sub>  
D - Iron is abundant  
E - A source of vitamin C

From these, the statements regarding the nutritional value of milk are

- (1) A and B. (2) B and E. (3) A, B and C.  
(4) A, C and D. (5) C, D and E.

11. From the following, what is the inactive enzyme in the stomach of infants that digest protein?

- (1) Pepsinogen (2) Prorenin (3) Trypsinogen (4) Renin (5) Pepsin

12. A digestive action in the duodenum during digestion of food is

- (1) converting polypeptides to dipeptides.  
(2) converting disaccharides to monosaccharides.  
(3) converting dipeptides to amino acids.  
(4) converting starch to monosaccharides.  
(5) converting proteins to proteoses and peptones.

13. A factor which is **not** causing iron deficiency is

- (1) consuming food containing phytic acid. (2) having parasitic infestations.  
(3) drinking tea soon before or after meals. (4) dehydration of the body.  
(5) having gastric ulcers.

14. Two stages in the life cycle, where the nutritional requirement is considered high are

- (1) infancy and adulthood. (2) infancy and lactation.  
(3) childhood and adolescence. (4) childhood and pregnancy.  
(5) adulthood and old age.

15. The cut-off values for the hip to waist ratio, an index regarding the weight of an individual are

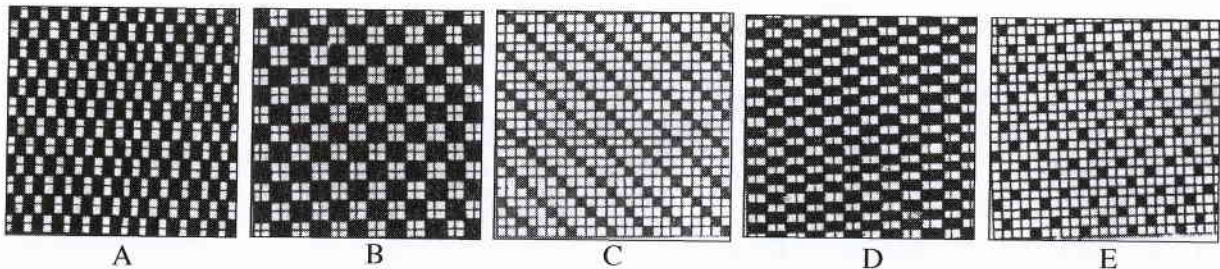
- (1) 0.8 for males and 0.9 for females. (2) 0.7 for males and 0.8 for females.  
(3) 0.8 for males and 0.7 for females. (4) 0.9 for males and 0.8 for females.  
(5) 0.7 for males and 0.6 for females.

16. A good food habit of a person having gastritis is

- (1) controlling sugar and sweets. (2) including food having fibre. (3) delaying the dinner.  
(4) limiting consumption of milk. (5) consuming small portions at a time.

17. Select the response that includes a thickening agent and a softening agent used in cooking food respectively.
- (1) sugar and cinnamon                      (2) coconut milk and tomato                      (3) rice flour and ginger  
(4) vinegar and tamarind                      (5) garlic and goraka
18. The methods/method of heat transfer involved in poaching an egg are/is
- (1) conduction and convection.                      (2) convection and radiation.                      (3) conduction and radiation.  
(4) only convection.                      (5) only conduction.
19. Two extrinsic factors causing microbial food spoilage are
- (1) moisture and pH value.  
(2) relative humidity and nutrient content.  
(3) atmospheric oxygen and relative humidity.  
(4) atmospheric oxygen and pH value.  
(5) moisture and nutrient content.
20. Following are some statements regarding food preservation by heat treatment.
- A - The aim of pasteurisation is to destroy the pathogenic organisms and to inhibit certain enzymes.  
B - During Ultra Heat Treatment (UHT) the packaged food is kept at 130° – 150°C for a few minutes.  
C - During freezing the microbial actions are not inhibited totally.  
D - During deep freezing the water soluble vitamins are unaffected.
- From these, the correct statements are
- (1) A and B.                      (2) A and C.                      (3) B and D.                      (4) A, C and D.                      (5) B, C and D.
21. Following are some statements regarding single thread chain stitch.
- A - Used in stitching button holes and fixing buttons.  
B - A curved needle is used in stitching.  
C - Is a stitch that easily comes out.  
D - A few stitches are sewn back to finish the stitching.
- From these, the correct statements are
- (1) A and B.                      (2) A and C.                      (3) A and D.                      (4) B and C.                      (5) B and D.
22. Select the correct statement.
- (1) Hydrogen Peroxide is a reductive bleach used in bleaching fabrics.  
(2) Fabrics with plain weave are less in strength.  
(3) The solution formed in nylon manufacture, is made into fiber by melt spinning.  
(4) In weft knitted fabrics, the lengthwise stretchability is more.  
(5) Woolen fabrics are much affected by micro-organisms.
23. In burning, which of the following fabrics leaves a ball which could not be crushed by fingers?
- (1) Nylon                      (2) Cotton                      (3) Cellulose acetate  
(4) Wool                      (5) Asbestos

24.



The diagrams that show matt weave and satin weave respectively are

- (1) A and B.                      (2) A and C.                      (3) B and D.                      (4) B and E.                      (5) D and E.
25. A treatment given to prevent the shrinkage of fabrics in washing is
- (1) Bleaching.                      (2) Sanforizing.                      (3) Felting.                      (4) Scouring.                      (5) Mercerizing.

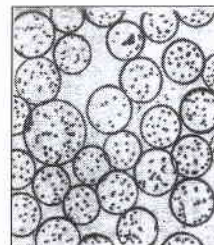
26. Which is the correct statement from the following?

- (1) When using the Zig-zag lock stitch, the correct and wrong sides of the fabric are seen differently.
- (2) In the garment industry, only the straight knives and band knives are used for cutting fabrics.
- (3) Terylene and rayon belong to the group of regenerated fibers.
- (4) Overlock stitch is used as a method of finishing edges.
- (5) Garments made of fabrics with water-proof finish are comfortable to the body.

27. The diagram shows the cross-sectional view of a fiber.

This fiber is

- (1) mercerised cotton.
- (2) polyester.
- (3) silk.
- (4) linen.
- (5) rayon.



28. Following are some statements regarding drafting and stitching the skirt. Select the correct statement from them.

- (1) In drafting the skirt, the length from waist to hip is considered as 21.5 centimeters.
- (2) One centimeter should be lowered from the hip measurement in shaping the side.
- (3) Two darts are introduced to the front skirt block.
- (4) The waist darts should be turned towards the center fold when stitching.
- (5) One centimeter of sewing allowance should be kept in stitching the back opening of the skirt.

29. The most suitable characteristics in developing inter-personal relationships are

- (1) competitiveness and attraction.
- (2) attraction and appearance.
- (3) appearance and leadership.
- (4) leadership and attraction.
- (5) competitiveness and leadership.

30. From the following which is the correct statement regarding verbal communication?

- (1) There is more ability to confirm.
- (2) Response is delayed.
- (3) Easy to study repeatedly.
- (4) Others' attention could be drawn.
- (5) Easy to clarify doubtful instances.

31. In developing interpersonal relationships, 'Negotiation' is

- (1) building up initial conversation among individuals.
- (2) stating personal views.
- (3) listening to others attentively.
- (4) discussing according to personal interest.
- (5) reaching a productive decision through discussion.

32. Given below are three types of questions asked in an interview.

- A - Closed questions
- B - Open questions
- C - Questions to test the interest in work

From the above, the most suitable type/types of questions to test the communication skills is/are

- (1) A only.
- (2) B only.
- (3) C only.
- (4) A and B only.
- (5) A and C only.

33. An activity under 'Adventure Tourism' is

- (1) going to a sanctuary.
- (2) visiting a farm.
- (3) climbing mountains.
- (4) walking in the beach.
- (5) worshipping the religious places.



34. From the following, what is the **incorrect** statement regarding tourism?

- (1) A recreational activity during leisure time.
- (2) Displacement from the familiar environment to a different place.
- (3) Going to a certain place without any intention of obtaining an incentive.
- (4) The maximum stay should not be less than 10 months.
- (5) At least one night should be spent in a certain place.

35. From the following which is the correct statement regarding 'Mass Tourism'?

- (1) A modern tourism stream
- (2) Causes minimum negative impact on the environment
- (3) Directs to popular tourist destinations
- (4) Can get experiences in depth
- (5) Tours in very small groups

36. The tourism of non-resident visitors to the economic territory of a considered country is termed as

- (1) outbound tourism.
- (2) internal tourism.
- (3) inbound tourism.
- (4) national tourism.
- (5) domestic tourism.

37. Following are some statements regarding household services. Which is the correct statement from them?

- (1) Measuring the temperature and the pH value are two physical tests used to test the suitability of water for consumption.
- (2) The diameter of the water pipe which supplies water to the wash basin of the kitchen should be 25 millimeters.
- (3) The single phase electricity of the national electricity system in Sri Lanka is 110V.
- (4) The lifespan of a compact fluorescent lamp is more than that of a fluorescent lamp.
- (5) In consumption of electricity, a unit of electricity is considered as one kilowatt.

38. Given below are some statements regarding the consumption of water. What is the correct statement from them?

- (1) Water used for washing clothes should be disposed to a septic tank.
- (2) Rain water is not suitable for washing clothes due to its hardness.
- (3) A good habit of using the washing machine is to use with minimum load.
- (4) Suitability of water for drinking could be decided by measuring its E-coli content.
- (5) Malaria and tetanus could be transmitted by water contaminated with micro-organisms in human and animal faeces.

39. Following are some statements regarding electrical energy. Select the correct statement from them.

- (1) Use of a hot-plate is more suitable than an immersion heater in conserving heat.
- (2) The potential difference in an electric supply is measured by volt (V).
- (3) The flow of electrons in a conductor is measured by Ohm.
- (4) The current supplied to a house through the live wire, first goes through the fuse.
- (5) Ocean waves, Bio-mass and charcoal are regenerated sources of energy.

40. Following are some statements regarding the supply of water by the National Water Supply and Drainage Board.

- A - Three charging methods are practised for water consumption in Sri Lanka.
- B - The board spends Rs. 160.00 as the capital and maintenance cost per unit of water.
- C - The presence of elements such as Chromium and Lead in water makes it unsuitable for drinking purpose.

The correct statement/s from the above is/are

- (1) A only.
- (2) B only.
- (3) A and B only.
- (4) A and C only.
- (5) B and C only.

41. The emission of green house gases to the environment is minimum when  
(1) using drinking water bottles. (2) using bio fuels.  
(3) consuming processed foods. (4) having yellow flames in cookers.  
(5) using refrigerators.
42. Given below are some statements regarding the 'green house effect'.  
A - Plantation programmes enhances the green house effect.  
B - Enhanced green house effect causes melting of glaciers.  
C - If the green house effect does not exist, global temperature would be  $-18^{\circ}\text{C}$ .  
D - The paddy plantation minimizes the green house effect.  
The correct statements from them are  
(1) A and B only. (2) B and C only. (3) A, B and C only.  
(4) A, B and D only. (5) B, C and D only.
43. A functional food and a medicinal food respectively are  
(1) tomato and soya. (2) yoghurt and gotukola.  
(3) gotukola and spinach. (4) carrot and mukunuwenna.  
(5) yoghurt and tomato.
44. A method of waste disposal that is **not** environment friendly is?  
(1) separating and recycling.  
(2) producing compost by decomposition of organic matter.  
(3) dumping solid waste in drains compactly.  
(4) dumping to the sea about 30km away from the beach.  
(5) production of bio gas.
45. Select the correct statement regarding the physical development of adolescent girls and boys.  
(1) The adolescence begins at the same age.  
(2) The enlargement of the larynx is visible.  
(3) The reproductive hormones are activated.  
(4) Mature reproductive cells are stored in the body.  
(5) The bone maturity is terminated at 17 years of age.
46. A characteristic shown during the mental development of adolescents is  
(1) self-centredness.  
(2) deciding on the truth only by the facts heard and seen.  
(3) tend to develop concrete thinking.  
(4) having the ability to understand about time and space.  
(5) commencement of reversible thinking.
47. When adolescents socialize, they  
A - act according to the wishes of elders.  
B - aim at leadership.  
C - tend to act for the well-being of the society.  
D - come forward to take responsibilities.  
The correct statements from the above are  
(1) A and B only. (2) B and C only. (3) C and D only.  
(4) A, B and C only. (5) B, C and D only.
48. An important fact in guiding the children to develop 'self-concept' is  
(1) the adult intervention in the day to day activities.  
(2) comparing with different abilities of other children.  
(3) solving the challenges and problems by the elders.  
(4) rewarding the children even in minor achievements.  
(5) disclosing the weaknesses of children in front of others.

49. Following are some ideas given by a group of students about entrepreneurship.

- A - Providing services come under entrepreneurship.
- B - Taking risks is harmful to the business.
- C - Competitive analysis is important to the business.
- D - Success of a business depends on the investment of a large capital.

The correct ideas from these are

- (1) A and B only.
- (2) A and C only.
- (3) B and C only.
- (4) B and D only.
- (5) C and D only.

50. To increase the productivity of a business

- (1) the management should be centralized by the entrepreneur.
- (2) strong rules and regulations should be enforced in the business.
- (3) steps of the management process should be followed.
- (4) engaging on new trials should be considered as a loss of resources.
- (5) advertising should be considered as the most effective method.

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## නව නිර්දේශය/புதிய பாடத்திட்டம் / New Syllabus

NEW

ශ්‍රී ලංකා විභාග දෙපාර්තමේන්තුව

இலங்கைப் பரீட்சைத் திணைக்களம்

Department of Examinations, Sri Lanka

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2019 අගෝස්තු  
 கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2019 ஓகஸ்ட்  
 General Certificate of Education (Adv. Level) Examination, August 2019

ගෞ ආර්ථික විද්‍යාව II  
 மனைப் பொருளியல் II  
 Home Economics II

28 E II

24.08.2019 / 0830 – 1140

පැය තුනයි  
 மூன்று மணித்தியாலம்  
 Three hours

අමතර කියවීමේ 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 and decide on the questions that you give priority in answering.

## Instructions:

\* Answer **six** questions including question No. 1.

- Name and identify **two** characteristics of colour.
  - Name a household electrical appliance and mention the energy conversion of the same.
  - State **two** non-dietary causes for obesity.
  - Mention **two** complications of diabetes.
  - What is felting?
  - Identify Screen printing.
  - State **two** examples for man-controlled tourist attractions.
  - Identify 'Food Foot Print'.
  - Mention **two** barriers for communication.
  - State **two** factors that affect the mental health of a child. (02 × 10 marks)

(Total 20 marks)
- Name and identify **three** main factors in designing. (03 marks)
  - Explain **three** facts to be considered in lighting a building. (03 marks)
  - Name **three** accessories of a household electrical circuit and explain the functions of **two** of them. (05 marks)
  - Name the main sources of generation of waste water and explain how the waste generated from them is disposed. (05 marks)

(Total 16 marks)
- State **three** facts that are to be considered when planning a menu. (03 marks)
  - State the special nutritional requirements of a child of 1-5 years and explain their importance. (04 marks)
  - State separately, the deficiency symptoms shown by children of 1-5 years due to lack of **two** nutrients mentioned above. (04 marks)
  - Plan a menu of a lunch for a four year old child. (05 marks)

(Total 16 marks)

4. (i) Blanching is used as a pre-treatment in preservation. State **four** facts to justify the importance of blanching. (04 marks)
- (ii) When using chemical preservatives, it is very important to add only the permitted dosage to the food. What are the harmful effects that could be caused due to intake of excessive amounts of these preservatives? (03 marks)
- (iii) Describe the different methods of mechanical drying used in food preservation. (03 marks)
- (iv) (a) Mention the properties of a food package. (03 marks)
- (b) Explain the need of the SWOT analysis which should be done before starting a business of packaging preserved foods. (03 marks)
- (Total 16 marks)
5. (i) Name and Identify **three** factors affecting the appearance and durability of commercial stitches. (03 marks)
- (ii) Explain with **four** facts, the importance of garment industry in Sri Lanka. (04 marks)
- (iii) Explain how a binding is used in sewing and finishing a table mat. (04 marks)
- (iv) 'Product development' is done in the garment industry. Describe the steps included in the Product development. (05 marks)
- (Total 16 marks)
6. (i) What is 'sustainable use of resources'? (02 marks)
- (ii) Explain the importance of sustainable use of resources. (04 marks)
- (iii) Name **four** forms of tourism and describe **two** of them. (04 marks)
- (iv) Explain the benefits gained by a person who is involved in tourism. (06 marks)
- (Total 16 marks)
7. (i) Give your comments regarding the nature of the emotional development during adolescence. (03 marks)
- (ii) State the problems faced by the adolescent regarding the family and the society. (03 marks)
- (iii) "The stress in some adolescents is shown physically as well as emotionally." Explain, giving examples. (05 marks)
- (iv) Discuss the contribution of the school for the personality development of adolescents. (05 marks)
- (Total 16 marks)
8. Write notes on **four** of the following topics.
- (i) The use of accessories in exterior designing.
- (ii) The importance of including fiber in daily meals.
- (iii) The finishes given to ready-made garments.
- (iv) The positive and negative impacts of tourism on economy of Sri Lanka.
- (v) Genetic characteristics affecting the personality development of an individual. (04×4 marks)
- (Total 16 marks)

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