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

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

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2025
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2025
General Certificate of Education (Adv. Level) Examination, 2025

ගෘහ ආර්ථික විද්‍යාව I மனைப் பொருளியல் I **Home Economics I**	**28 E I**	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** (×) in accordance with the instructions given on the back of the answer sheet.*

1. The two elements of design are,
(1) line and value.
(2) intensity and shape.
(3) value and texture.
(4) line and intensity.
(5) shape and texture.

2. Select is the correct statement regarding the principles of design in exterior and interior designing.
(1) Proportion is the matching of length, width, height, weight and size to each other.
(2) The same feature represented in an indirect manner is termed as repetitive rhythm.
(3) Integration is adjusting the colour, texture and size, so that it exceeds strength of each other.
(4) Placement of accessories at unequal distance from the center is termed as symmetrical balance.
(5) Matching shape, colour and texture in the same manner is harmony.

3. Choose the most appropriate statement/statements regarding the functionality of a design.
A - Constructing buildings with modern shape, breaking away from monotony
B - Prioritizing the work of users of the building over their mental state
C - Having lighting structures of buildings in accordance with local regulatory standards
(1) *A* only. (2) *C* only. (3) *A* and *C* only.
(4) *B* and *C* only. (5) All *A*, *B* and *C*.

4. For what principle of design do the artists use the concept of 'Fibonacci sequence'?
(1) Asymmetrical balance
(2) Integration
(3) Repetitive rhythm
(4) Emphasis
(5) Proportion

5. Select the option which includes the most common disaccharides in sugar cane, milk and germinating cereals respectively.
(1) Maltose, Galactose, Sucrose
(2) Sucrose, Lactose, Maltose
(3) Maltose, Sucrose, Lactose
(4) Sucrose, Galactose, Maltose
(5) Glucose, Sucrose, Lactose

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6. Select the correct statement regarding macro nutrients.
(1) Protein denaturation occurs by the coagulation of albumin in boiled egg white.
(2) Legumes are examples for complete proteins.
(3) The composition of all lipids is carbon, hydrogen and oxygen.
(4) Starch is the most abundant carbohydrate on earth.
(5) Lipids is a component found in some cells of the body.

7. Select the option including the foods rich in saturated and unsaturated fatty acids respectively
(1) olive oil, pork
(2) pork, butter
(3) fish, soybean oil
(4) pork, fish
(5) soybean oil, olive oil

8. Consider the following statements regarding dietary fiber.
A - Reduces the food transit time in the intestine.
B - Form short chain fatty acids by bacterial activity.
C - Helps in controlling blood cholesterol level.
Select the correct statement/statements from above.
(1) *A* only. (2) *A* and *B* only. (3) *A* and *C* only.
(4) *B* and *C* only. (5) All *A*, *B* and *C*.

9. From the following, what is the correct statement?
(1) Folic acid could be obtained only by animal foods.
(2) Yams contain antioxidants.
(3) Eggs contain all the water soluble vitamins.
(4) Non fat milk is a source of vitamin A.
(5) Omega 6 fatty acid could be synthesized inside the body.

10. Which of the following is **not** a food containing B group vitamins?
(1) curd (2) soybeans (3) fish
(4) mushroom (5) vegetable oil

11. Which of the following is a factor that increases the risk of non-communicable diseases in a woman?
(1) BMI of 24
(2) Consuming only rice with bran
(3) Having an apple shaped body
(4) Consuming only plant foods
(5) Waist : hip ratio of 0.7

12. Consider the following facts regarding the digestive system.
A - Mix with bile juice
B - pH value between 5.6-6.9
C - Presence of lacteals
D - Secreation of pancreatic juice
From these, the facts affecting digestion and absorption of lipids are
(1) *A* and *B* only.
(2) *A*, *B* and *C* only.
(3) *A*, *B* and *D* only.
(4) *A*, *C* and *D* only.
(5) all *A*, *B*, *C* and *D*.

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13. Which is **not** a function of the stomach?
(1) Acidifying the food
(2) Completing protein digestion
(3) Mixing the food mechanically
(4) Inactivating amylase enzyme
(5) Synthesising hormones

14. Consider the following facts.
A - A form of chronic malnutrition
B - Qualitative lacking of the essential nutrients
C - Quantitative deficiency of the essential nutrients
From these the correct fact/facts regarding kwashiorkor is/are
(1) *A* only. (2) *A* and *B* only. (3) *A* and *C* only.
(4) *B* and *C* only. (5) All *A*, *B* and *C*.

15. Following are the food groups and the relevant daily food portion sizes according to the food pyramid.

Food Group	Daily food portion size
A - Rice, bread, cereals and yams	6 - 11
B - Vegetables	3 - 5
C - Milk and milk products	2 - 4

The statement/statements that correctly matches with food groups and relevant food portion sizes is/are
(1) *A* only. (2) *B* only. (3) *A* and *B* only.
(4) *A* and *C* only. (5) All *A*, *B* and *C*.

16. Select the option which includes a pair of foods that should be included in plenty, in a diet suitable for preventing over nutrition.
(1) vegetable salads, pulses
(2) oil seeds, fruits
(3) malted drinks, fruits
(4) oil seeds, malted drinks
(5) pulses, dry fruits

17. Following are some statements regarding methods of cooking.
A - Cooking is done within a minimum period of time.
B - A little fat is used for cooking.
C - Cooking is done under dry heat.
D - Used for cooking meat and fish.
From these, the statements regarding roasting 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.

18. What is the food that manufactures using the fungi species *Aspergillus oryzae*?
(1) vinegar (2) soy sauce (3) fruit juice
(4) yoghurt (5) meat

19. Following are some statements regarding food preservation.
A - During smoking the phenolic compounds in the smoke get deposited on the surface of the food.
B - During cooling the microbial activities are inhibited and the enzymes are inactivated.
C - Drum drying is used only for liquid foods.
D - Blanching could be done by keeping the food exposed to steam for a few minutes.
The correct statements are,
(1) *A* and *C* only. (2) *A* and *D* only. (3) *B* and *D* only.
(4) *A*, *C* and *D* only. (5) *B*, *C* and *D* only.

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20. Select the option which includes the two additives that act as flavour enhancers.
(1) Monosodium glutamate (MSG) and Inosinic acid
(2) Lecithin and carmoisine
(3) Propyl galate and monosodium glutamate
(4) Inosinic acid and lecithin
(5) Carmoisine and propyl galate

21. Select the **incorrect** fact regarding artificial preservatives from the following facts.
(1) Inhibits yeast and certain fungi that grow on food.
(2) Their activity depends on the pH value of the medium and temperature.
(3) Nitrates and nitrites show maximum toxic effect.
(4) Benzoates are used for milk products.
(5) Excessive addition of sulphites cause respiratory ailments.

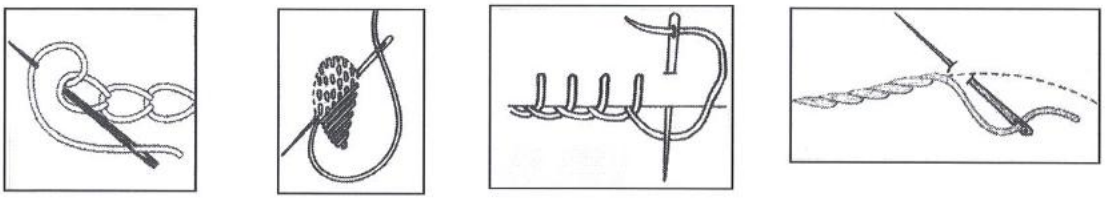
22. Select the correct statement regarding the packaging material Polyethylene Pteraphthalate (PET).
(1) Non-reusable.
(2) Non-permeable to oils.
(3) Water bottles are examples.
(4) Price is reasonable.
(5) Low in strength.

23. The stitch which is **not** used as a permanent stitch in commercial stitches is
(1) blind stitch.
(2) hand stitch.
(3) lock stitch.
(4) single thread chain stitch.
(5) Zig-Zag lock stitch.

24. Select the **incorrect** statement.
(1) In the garment industry, there are instances where the final cutting is done for garments without subjecting to rough cutting.
(2) The weave, weight, resistance for bleaches should be tested in quality checking of fabrics.
(3) The band knife used, when cutting fabrics, moves horizontally through the fabric.
(4) Multi thread chain stitch belongs to the stitch class 400.
(5) Whatever the shape of the table cloth, the serviette takes the square shape.

25. It is required to construct a table cloth for a dining table of length 175 centimetres and breadth 80 centimetres. The drop from the sides is 30 centimetres. Thus the size of the table cloth should be
(1) 175 cm × 80 cm. (2) 182 cm × 87 cm. (3) 190 cm × 95 cm.
(4) 205 cm × 110 cm. (5) 235 cm × 140 cm.

26. Following are the diagrams of four decorative stitches.



The stitches shown respectively are
(1) blanket stitch, stem stitch, chain stitch and satin stitch.
(2) chain stitch, satin stitch, blanket stitch and stem stitch.
(3) satin stitch, chain stitch, stem stitch and blanket stitch.
(4) stem stitch, blanket stitch, satin stitch and chain stitch
(5) satin stitch, stem stitch, chain stitch and blanket stitch.

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27. Following features were observed when burning some fibres.

A - Burns with a yellow flame, leaves ash coloured light ash

B - Burns off when taken away from the flame, leaves crushable ash crumbs

C - melts when burning, leaves uncrushable hard round ash lump

These fibres respectively are

(1) Wool, Dacron and Acrylic.
(2) Acrylic, Cotton and Wool.
(3) Cotton, Wool and Dacron.
(4) Acrylic, Dacron and Cotton.
(5) Cotton, Wool and Acrylic.

28. Consider the following statements.

A - The manufacturing process of fibres to fabrics is included in the textile industry.

B - Melt spinning is used when making Nylon and polyester fibres.

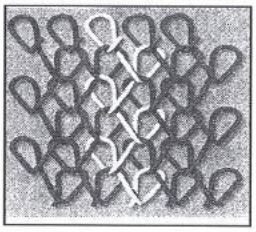
C - Twill weave is a variation of plain weave.

D - Before mercerization, the transverse section of a cotton fibre shows a circular shape

From these, the correct ones 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.

29. For the construction of which of the following, the knit given below is used?



(1) Mosquito nets, under garments
(2) Swim suits, mosquito nets
(3) T shirts, swim suits
(4) T shirts, sports wear
(5) Sports wear, socks

30. Following are some statements regarding the construction of skirt.

A - When constructing the block, one centimetre should be added to the waist measurement as the dart allowance.

B - Only one dart is put for the front block.

C - When drafting the block, equal sewing allowance should be kept for the sides, waist and hem.

D - The back slit should be finished after fixing the zip fastener to the centre back waist opening.

From these, the correct statements are

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

31. The dress code is more important in a profession for

(1) the emergence of attractiveness.
(2) providing comfortability.
(3) developing personality.
(4) reflecting personal identity.
(5) compliance with modern fashion.

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32. Consider the following statements regarding facing an interview.

A - Should mention only the abilities you have.

B - Close-ended questions should be answered by describing abilities you have.

C - Should thank at the end of the interview.

D - Should tell the required salary according to the profession.

From these, the correct statement/statements is/are

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

33. Following are some statements regarding leisure and recreation.

A - There is no effect of the social background in selecting activities for leisure.

B - Recreational activities are classified as physical activities and service activities.

C - The demand for recreation increases with the development of infrastructure.

The correct statement/statements from the above is/are

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

34. What is the **incorrect** statement regarding tourism?

(1) Development of interpersonal relationships is a benefit to the society.
(2) Language problems are solved by computer literacy and translation services.
(3) Develop feelings of inferiority complex in the host and feelings of superiority complex in the guest.
(4) Develop direct and indirect job opportunities to the society.
(5) Since it is done during the leisure period, it is a recreational activity.

35. An example for man controlled attractions is

(1) Lotus tower.
(2) Dehiwala Zoological gardens.
(3) Hantana Mountain range.
(4) Wilpattu National Park.
(5) Devon falls.

36. Following are few statements regarding tourism.

A - The new trend of tourists is spending the vacation in distant countries.

B - The understanding of different cultures is a positive impact of tourism.

C - Arrival of Asian tourists is a reason for strengthening the tourist industry.

The correct statement/statements from these is/are

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

37. Following are some statements regarding consumption of water.

A - In Sri Lanka about 23% of the total water consumption is used for industries.

B - Temperature of water, concentration of solid matter and pH value are tested by the physical test done to find the suitability of water.

C - Rain water is suitable for washing cloths.

D - In the septic tank the waste water of the lavatories is decomposed to water and gases by the bacteria.

From these, the correct statements are

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

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38. Select the **incorrect** sentence regarding the household electricity supply system.
(1) The single phase electricity of the national electricity system is 230 V and 50 Hz.
(2) The electricity flowing through the live wire in the household circuit first passes through the residual current circuit breaker.
(3) In old household circuits, all the fuse wires are fixed in the distribution box.
(4) In houses, 6 A miniature circuit breakers are put in the lamp circuits where as 13 A ones are put in the (plug) socket circuits.
(5) The switches of all bulbs in the lamp circuit are connected to the live wire.

39. Which of the following is measured by 'watt', a unit connected to electricity?
(1) Potential difference (2) Current (3) Power
(4) Voltage (5) Resistance

40. Consider the following statements regarding electrical appliances.
A - Connecting the electrical appliance to the earth wire protects the appliance as well as the user.
B - The neutral wire is blue and the live wire is brown that are connected to the plug.
C - The immersion heater is most suitable to heat water.
From these, the correct statement/statements is/are,
(1) *A* only. (2) *B* only. (3) *A* and *C* only.
(4) *B* and *C* only. (5) All *A*, *B* and *C*.

41. Two possible impacts of the increase of rainfall are
(1) decrease of photosynthesis and epidemic growth.
(2) extinction of living organisms and increase of soil erosion.
(3) epidemic growth and increase of light intensity.
(4) decrease of photosynthesis and extinction of living organisms.
(5) increase of light intensity and increase of soil erosion.

42. Consider the following facts.
A - Oats - Control of cholesterol level
B - Green tea - Control of diabetes
C - Grape juice - Healthiness of the heart
From the above, the statement/statements which correctly mentioned about the functional food and its advantage is/are
(1) *B* only. (2) *A* and *B* only. (3) *A* and *C* only.
(4) *B* and *C* only. (5) All *A*, *B* and *C*.

43. Which of the following is a genetically modified food?
(1) Corn (2) Winged bean (3) Pumpkin (4) Potato (5) Nelli

44. Consider the following facts.
A - Possibility for a natural production
B - Generate at a slower rate than the speed of use
C - Restoration can be done through natural production process within short time
From the above, a characteristic/characteristics of renewable resources is/are
(1) *A* only. (2) *A* and *B* only. (3) *A* and *C* only.
(4) *B* and *C* only. (5) All *A*, *B* and *C*.

45. Which psychologist defined adolescence as the period 10 - 20 years?
(1) Jean Piaget (2) Sigmund Freud (3) Gessel
(4) Hurlock (5) Stott

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46. Consider the following facts.

A - Starting the synthesis of reproductive hormones

B - Rapid muscular development

C - Onset of adolescence during 11-15 years

D - Increase of height during 10-14 years

From these, the correct facts regarding adolescent girls are

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

47. Following are some features of a person with a balanced personality. From them, what is the feature that shows emotional balance?

(1) Presentation skills
(2) Acting according to the environment
(3) Resisting to problematic situations
(4) Pleasant nature
(5) Active living

48. Two psychophysical conditions seen in a mentally sick child are

(1) headache and stomach ailments. (2) cold and fever.
(3) fever and headache. (4) vomiting and cough.
(5) stomach ailments and cold.

49. Select the **incorrect** statement from the following.

(1) A correct business plan includes business description and marketing plan.
(2) Productivity means the ratio of inputs and outputs.
(3) Competitive analysis is an advanced process than SWOT analysis.
(4) Kaizen concept could be applied to increase the productivity of a business.
(5) There are four wants considered regarding the productivity of a business.

50. Consider the following statements.

A - There are two main important tasks in entrepreneurship.

B - When engaging in a business fulfilling consumer needs is an external ethic.

C - According to Mc Lelan there are three main stimulations in an entrepreneur.

D - Entrepreneurs are born in a society mainly on the impact of social and economic facts.

From these, the correct statement/statements is/are

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

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இலங்கைப் பரீட்சைத் திணைக்களம்
Department of Examinations, Sri Lanka

අධ්‍යයන පොදු සහතික පත්‍ර (උසස් පෙළ) විභාගය, 2025
கல்விப் பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2025
General Certificate of Education (Adv. Level) Examination, 2025

ගෘහ ආර්ථික විද්‍යාව II மனைப் பொருளியல் II **Home Economics II**	**28 E II**

පැය තුනයි மூன்று மணித்தியாலம் ***Three hours***	අමතර කියවීම් 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 you will answer and decide which of them you will prioritise.

Instructions:

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

1. (i) Write **two** thermal insulatory materials that could be used in constructing the roof of a house.
(ii) Identify 'Isolater' regarding the supply of electricity.
(iii) Write the chemical names of vitamin D and vitamin E respectively.
(iv) Name **two** factors that increase the iron absorption in the human body.
(v) Mention **two** finishes used for fabrics and garments regarding personal safety.
(vi) Write **two** facts affecting the quality of ready-made garments.
(vii) Tourism is of **two** main streams. Name them.
(viii) Write **two** materials used in maintaining an environmental friendly cultivation.
(ix) Name **two** electronic communication media.
(x) Mention **two** secondary sex characteristics common to both girls and boys.

(02 × 10 = 20 *marks*)

2. (i) Define 'minimum energy consumption'. (02 *marks*)
(ii) Write **four** ways of getting natural lighting to suit the interior environment. (04 *marks*)
(iii) Explain
(a) Soft landscape.
(b) Physical axes.
(04 *marks*)
(iv) (a) Energy sources are of two main types. Name them. Write one example for each.
(b) Describe how biogas is synthesised.
(06 *marks*)
(Total 16 *marks*)

3. (i) Name **three** factors that affect food poisoning. (03 *marks*)
(ii) Write **three** nutritional advices regarding feeding children of 1-5 years. (03 *marks*)
(iii) Explain **four** factors which affect gastritis. (04 *marks*)
(iv) Plan a days menu for a patient with hypertension. (06 *marks*)
(Total 16 *marks*)

[*See page two*

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4. (i) How does the oxidation/reduction potential of a food affect the microbial growth? (03 *marks*)

(ii) Name a biochemical method used for food preservation. Explain with an example how the food is preserved by it. (05 *marks*)

(iii) Write short notes on

(a) Sterilization

(b) Osmotic dehydration (08 *marks*)

(Total 16 *marks*)

5. (i) State **two** technological methods used to improve the quality of fabrics. (02 *marks*)

(ii) Give the classification of fabrics according to the manufacturing process and structure. Write an example for each. (04 *marks*)

(iii) Name **two** methods suitable to finish the edge of a circular table mat and describe **one** of them. (04 *marks*)

(iv) Explain

(a) Fabric painting.

(b) Applique work. (06 *marks*)

(Total 16 *marks*)

6. (i) State **three** measures that could be taken to minimize greenhouse gases in the environment. (03 *marks*)

(ii) Write **three** effects to the environment due to the liquid waste drained from factories. (03 *marks*)

(iii) (a) Define 'Recreation'. (02 *marks*)

(b) Explain the importance of recreation quoting **three** facts. (03 *marks*)

(iv) Educational tourism is important for students. Discuss. (05 *marks*)

(Total 16 *marks*)

7. (i) Identify 'personality'. (03 *marks*)

(ii) What is meant by 'mental balance' present in an individual having a balanced personality? (04 *marks*)

(iii) Adolescence is a transitional stage. Therefore the child often shows emotional imbalances. Explain. (04 *marks*)

(iv) Discuss, how an adolescent having mental pressure could be rescued from it. (05 *marks*)

(Total 16 *marks*)

8. Write notes on **four** of the following topics.

(i) Designing buildings in accordance with time and space

(ii) Inclusion of cereals and cereal products in meals

(iii) Cutting the skirt by using the block

(iv) Present situation of the tourist industry in Sri Lanka

(v) The characteristics showing the social development of adolescents

(04 × 4 = 16 *marks*)

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