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සියලු ම හිමිකම් ඇවිරිනි /( $\psi$ ( $\psi$ ப் பதிப்புரிமையுடையது / $All\ Rights\ Reserved$ )

## (නව නිර්දේශය/பුதிய பாடத்திட்டம்/New Syllabus)

අධායන පොදු සහතික පතු (උසස් පෙළ) විභාගය, 2020 සබාඛ්ට பொதுத் தராதரப் பத்திர (உயர் தர)ப் பரீட்சை, 2020 General Certificate of Education (Adv. Level) Examination, 2020



*පැය දෙකයි* இரண்டு மணித்தியாலம் **Two hour**s

## **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. 'Zig Zag lines' and 'diagonal lines' are two types of lines, which is an element of design. The feelings depicted by both the above lines are
  - (1) activeness and movement.
- (2) movement and unrest.
- (3) excitement and activeness.
- (4) rhythmity and excitement.
- (5) unrest and rhythmity.
- 2. Consider the following statements which were presented after observing some houses. From them what is the most suitable statement regarding construction or decoration?
  - (1) Finishing the roof and the ceiling with Asbestos.
  - (2) Hanging large colourful pictures on the walls of a drawing room.
  - (3) Selecting dark colour fabric for the upholstery of furniture in a small drawing room.
  - (4) Draping transparent lace curtains on long windows of the drawing room.
  - (5) Paving the kitchen floor with rough tiles with carvings.
- 3. Select the **incorrect** statement from the following.
  - (1) The value of a colour could be increased by mixing with white colour.
  - (2) Interior designing is a part of the physical living environment.
  - (3) The visible weight and the scale are the two factors that decide the proportion of a design.
  - (4) Placement of furniture and accessories in a house could be done according to symmetrical or asymmetrical balance.
  - (5) It is important to study about the development projects of the environment before designing the buildings.
- 4. From the following the correct fact regarding exterior designing is
  - (1) growing big trees in a small home garden.
  - (2) always constructing straight pathways to walk in the home garden.
  - (3) using accessories such as ponds, bridges and water-falls to decorate any landscape.
  - (4) construction of several glossy statues to create a soft landscape.
  - (5) designing the exterior so as to depict the function of the building.
- 5. Two monosaccharides are
  - (1) Glucose and Maltose.
- (2) Glycogen and Fructose.
- (3) Galactose and Fructose.
- (4) Galactose and Maltose.
- (5) Glucose and Glycogen.

- 6. Which is the correct statement related to proteins?
  - (1) Concentrated salts have no effect on the changes in the three dimensional structure of proteins.
  - (2) Protein complementation occurs by mixing several types of cereals in food processing.
  - (3) The antibodies which are important for the immunity of the body, do not have a protein origin.
  - (4) Actin and Myosin are two proteinous compounds which are important for the function of the muscles.
  - (5) The structure of protein contains the elements Carbon, Hydrogen, Oxygen, Nitrogen and Sulphur essentially.
- 7. From the following vitamins, which one is present only in animal foods?
  - (1) Niacin (B<sub>3</sub>)
  - (2) Pyridoxin (B<sub>6</sub>)
  - (3) Riboflavin (B<sub>2</sub>)
  - (4) Folic acid (B<sub>0</sub>)
  - (5) Cyanocobalamin (B<sub>12</sub>)
- 8. Two hormones containing lipids are
  - (1) Cortisone and Estrogen.
  - (2) Estrogen and Thyroxine.
  - (3) Cortisone and Insulin.
  - (4) Testosterone and Insulin.
  - (5) Thyroxine and Testosterone.
- 9. What is the correct statement regarding the foods in different groups?
  - (1) Fish and dry fish contain high content of saturated fats.
  - (2) Lactose in milk is one of the main reasons for dental decay.
  - (3) Removal of bran due to polishing causes the loss of vitamins and minerals in all the types of rice.
  - (4) Fiber in vegetables reduce the absorption of cholesterol to the body.
  - (5) Of the animal proteins the biological value of proteins in egg white is low.
- 10. Micronutrients that cause deficiencies commonly found in Sri Lanka are
  - (1) Iron, Vitamin A, Iodine and Zinc.
  - (2) Iodine, Vitamin A, Phosphorus and Zinc.
  - (3) Zinc, Vitamin K, Iodine and Selenium.
  - (4) Selenium, Vitamin A, Iron and Phosphorus.
  - (5) Phosphorus, Vitamin K, Selenium and Iron.
- 11. From the following, what is the correct statement about the process of the digestion of food?
  - (1) Digestion of sucrose in foods starts in the mouth.
  - (2) Gastric juice contains the enzyme trypsin.
  - (3) Bile is important for the emulsification of fats.
  - (4) The pH value required for the function of enzyme lypase is about 3.
  - (5) Digestion of proteins in foods starts in the small intestine.
- 12. Consider the following facts.

The consumption of, A - beverages containing caffein.

- B foods rich in Vitamin D.
- C foods with soluble fiber.
- D foods containing phytic acid.

From these the facts that unfavourably affects the absorption of calcium and magnesium to the body are,

(1) A and B only.

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

(4) B and D only.

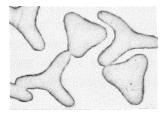
(5) C and D only.

- 13. What is the correct statement regarding malnutrition status Kwashiorkor and Marasmus?
  - (1) Swelling of the face, abdomen and legs are the main symptoms of Marasmus.
  - (2) Both Kwashiorkor and Marasmus conditions can develop together at the same time.
  - (3) Lack of adequate protein intake from the foods leads to Marasmus condition of the child.
  - (4) The children aged less than 1½ years have a high tendency of getting Kwashiorkor.
  - (5) The disease Kwashiorkor is common among the children who live in populated urban areas of Sri Lanka.
- 14. Select the correct statement regarding the food pyramid and food plate used in meal planning.
  - (1) One third of the food plate should be vegetables and green leafy vegetables.
  - (2) Food plate is introduced as food pyramid is incompatible for Sri Lanka.
  - (3) Diary foods should be included in all the main meals and snacks consumed in a day.
  - (4) Food pyramid and food plate represent a daily meal of a person.
  - (5) Daily servings of animal foods is presented by one section of the food pyramid.
- 15. A correct way to control obesity is
  - (1) skipping the daily meals.
  - (2) the consumption of more protein rich foods.
  - (3) drinking water before the meals.
  - (4) the consumption of yams as a substitute for rice.
  - (5) limiting the daily intake of foods only to the main meals.
- 16. Two types of foods that are most suitable for a patient suffering from high blood pressure and diabetes are
  - (1) a piece of fruit cake, a glass of fat free milk.
  - (2) a piece of roasted fish, an Ambul plantain.
  - (3) a piece of savoury dry fish, a mixed vegetable salad.
  - (4) a slice of Kurakkan bread, a glass of mixed fruit cordial.
  - (5) a slice of low fat cheese, tempered Kohila curry.
- 17. To which category of additives does Sodium Nitrate used in food processing belong to?
  - (1) Flavouring agents

- (2) Curing agents
- (3) Leavening agents

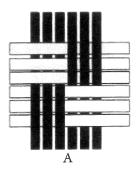
- (4) Acidifying agents
- (5) Emulsifying agents
- 18. A cooking method which uses conduction, convection and radiation as heat transferring methods is
  - (1) frying.
- (2) poaching.
- (3) grilling.
- (4) stewing.
- (5) steaming.
- 19. Which of the following statements is correct regarding the browning reactions of foods?
  - (1) There is no enzymatic influence on the Maillard reaction.
  - (2) Non enzymatic browning is named as the formation of astringency.
  - (3) A reaction of carbohydrates and proteins is needed for caramalization.
  - (4) All the browning reactions occur with the involvement of polyphenolic compounds in foods.
  - (5) In bakery products, the browning that occurs after glazing with eggs and baking is an enzymatic reaction.
- 20. The heat treatment method that destroys the food spoilage microorganisms as well as their spores is
  - (1) blanching.
  - (2) sterilization.
  - (3) cooking/heating.
  - (4) Low Temperature Long Time pasteurization (LTLT).
  - (5) High Temperature Short Time pasteurization (HTST).
- 21. Which of the following situations uses technical textiles?
  - (1) In agriculture
  - (2) In the garment industry
  - (3) In decorating buildings
  - (4) In preparation of curtains for offices
  - (5) In preparation of screens to separate the patients in hospitals

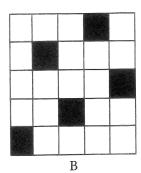
- 22. The three types of commercial stitches used in apparel industry are
  - (1) lock stitch, hem stitch and covering chain stitch.
  - (2) stem stitch, hand stitch and chain stitch (single thread).
  - (3) hand stitch, lock stitch and chain stitch (single thread).
  - (4) hem stitch, blanket stitch and covering chain stitch.
  - (5) blanket stitch, stem stitch and over-edge chain stitch.
- 23. The following diagram shows the microscopic appearance of the cross section of a fiber. What is this fiber ?



- (1) silk
- (2) wool
- (3) linen
- (4) nylon
- (5) polyester
- 24. What kind of fiber gives a bead like residue after burning?
  - (1) Silk
- (2) Linen
- (3) Decron
- (4) Asbestose
- (5) Cellulose
- 25. According to the classification of fibers the examples for synthetic fibers are
  - (1) Rayon and Casein.
- (2) Aramid and Terylene.
- (3) Orlon and Casein.

- (4) Terylene and Orlon.
- (5) Spandex and Rayon.
- 26. The weaves shown in the diagrams A and B are respectively,





- (1) mat weave and satin weave.
- (2) regular twill weave and wavy twills.
- (3) weft-rib weave and satin weave.
- (4) mat weave and wavy twills.
- (5) weft-rib weave and regular twill weave.
- 27. Following are some statements regarding the overlock stitch used in Apparel Industry.
  - A Used in sewing designs on clothes.
  - B Used to finish the edges of clothes.
  - C No of threads 1, 2, 3, 4, 5 etc. could be used when sewing.
  - D Used in stretching areas of sports wear.

The correct statements from these are

(1) A and B only.

- (2) A and C only.
- (3) A and D only.

(4) B and C only.

- (5) B and D only.
- 28. The finish given to fabrics using an insoluble metallic compound is
  - (1) water proof finish.
  - (2) fire proof finish.
  - (3) bullet proof finish.
  - (4) anti bacterial finish.
  - (5) chemical compound resistant finish.

- 29. What is the correct fact regarding communication?
  - (1) Quick responses are obtained in written communication.
  - (2) The possibility of confirmation is low in written communication.
  - (3) It is easy to study again and again in oral communication.
  - (4) Raising the thumb is a non-verbal communication giving the consent.
  - (5) Use of signs to express ideas briefly is a component of verbal communication.
- **30.** Consider following facts.
  - A The ethics of the various occasions remain unchanged.
  - B The formal approach should always be followed when building up conversation.
  - C The confidentiality of the information of an organization should be protected.
  - D It is important to choose common topics when building up conversations.

The correct facts from the above facts regarding ethics are

(1) A and B only.

- (2) A and C only.
- (3) A and D only.

(4) B and C only.

- (5) C and D only.
- 31. Number of National wild life parks in Sri Lanka which attract tourists are
  - (1) 05.
- (2) 10.
- (3) 15.
- (4) 20.
- (5) 25.
- 32. A tour operator has organized a tour by a luxury cruise ship for a group of 500 passengers to visit the coral reefs of the pacific ocean. Which tourism stream does this belong to?
  - (1) Alternative tourism
- (2) Adventure tourism
- (3) Mass tourism

(4) Eco-tourism

- (5) Nature tourism
- 33. Consider following facts.
  - A Playing tennis.
  - B Following a course in acting.
  - C Engage in self-creations.
  - D Engage in driving exercises.

From these the recreational activities are

(1) A and B only.

- (2) A and C only.
- (3) A and D only.

(4) B and C only.

- (5) C and D only.
- 34. From the following select the correct statement regarding tourism.
  - (1) Tourism within different geopolitical zones is Intraregional tourism.
  - (2) Tourism within and outside the country by residents of a particular country is National tourism
  - (3) Tourism within the country by residents and Non-residents of a particular country as guests is Domestic tourism.
  - (4) Tourism within the country by residents of a particular country as guests is Internal tourism.
  - (5) Tourism outside the country by residents and non-residents as guests is Outbound tourism.
- 35. Examples for man made attractions are
  - (1) Beautiful scenes, Museums and Rubber plantations.
  - (2) Rubber plantations, beautiful scenes and National parks.
  - (3) Conserved areas, Tea Industry and Museums.
  - (4) Handy crafts, Tea Industry and Cultural events.
  - (5) Cultural events, Handy crafts and National parks.
- 36. Which of the following statements is correct regarding tourists?
  - (1) Tourists usually spend about three weeks in Sri Lanka.
  - (2) A large percentage of tourists travel with their children.
  - (3) Most of the tourists prefer travelling to far away countries.
  - (4) Most of the tourists tend to resort to package tours.
  - (5) Most of the tourists pay attention to their professional activities during the tour.

37. Given below is a chart about the consumption of electrical lights and electrical appliances in a home within a day.

| Light / Appliances |                  | No. | Wattage | Time consumed |
|--------------------|------------------|-----|---------|---------------|
| (1)                | Electric lights  | 5   | 75      | 4 hours       |
| (2)                | Electric iron    | 1   | 1500    | 30 mins       |
| (3)                | Rice cooker      | 1   | 1000    | 30 mins       |
| (4)                | Immersion heater | 1   | 750     | 20 mins       |

Calculate the amount of electrical units consumed for the day in this house, approximately.

- (1) 2.0 kWh.
- (2) 2.3 kWh.
- (3) 2.6 kWh. (4) 3.0 kWh.
- (5) 3.2 kWh.
- 38. From the following, what is the correct statement regarding the house-hold electric supply?
  - (1) Defects in the meter should be remedied by the consumer.
    - (2) Wires of standard colours should be used to connect to the plugs.
    - (3) When the overload circuit breaker is disconnected, it should be remedied by replacing the fuse.
    - (4) It is essential to connect the earth wire to all the electrical appliances used in the house.
    - (5) Both the accessories, the isolator and the main switch are present in the new house hold circuits.
- **39.** Following statements are connected to the consumption of water resources. Select the correct statement from them.
  - (1) Rain water is suitable for all the household needs.
  - (2) All the microorganisms and chemicals are removed from the drinking water.
  - (3) Only 5% of water present in the earth is suitable for consumption.
  - (4) The water fallen on the roof tops should be collected from the beginning of the rainy season.
  - (5) About 70% of consumable water is used for agricultural purposes in Sri Lanka.
- 40. Given below are some statements connected to water and electricity.
  - A Even though the power of a LED bulb is more, the life span is less than that of other bulbs.
  - B The use of solar panels is a remedy for power crisis.
  - C Water containing detergents, fats and oils are not suitable to send to the septic tank.
  - D Water used in the kitchen is not suitable for gardening.

The correct statements are

(1) A and B only.

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

(4) B and D only.

- (5) C and D only.
- 41. From the following which is not a feature of renewable resources?
  - (1) Generates within a short time

(2) Can not be recycled

(3) Ability to generate naturally

- (4) Can not destroy completely
- (5) Can be replaced by natural processes
- 42. What is the fact that positively affect for the sustainable use of resources?
  - (1) Involving in maximum production
  - (2) Involving in organic farming
  - (3) Use of wood as a fuel instead of gas
  - (4) Storing foods needed for about one month
  - (5) Removing the household refuse in to a pit in the home garden
- 43. Which of the following gives the foods in lower to higher sequence of food footprints?
  - (1) Milk, fruits and bread
  - (2) Beverages, cereals and vegetables
  - (3) Chicken, milk and sugar
  - (4) Vegetables, cereals and beverages
  - (5) Sugar, fruits and chicken

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|------|--|---|--|--|--|--|
| 44.  | Some statements connected to functional are given below.  A - Some times new compone B - Pre-biotic avoids the grow C - Two biologically functional D - Biologically functional confirmation of the correct statements from these are (1) A and B only.  (4) B and C only.  What is the characteristic specific to | nts are added to foods so as th of harmful bacteria in the components abundant in foods nponents are always produced e  (2) A and C only. (5) C and D only. | to obtain functional foods. digestive system. are amino acids and antioxidants |  |  |  |
|      | <ul><li>(2) Show a liking to be isolated</li><li>(3) Express drawback in moral dev</li><li>(4) Act with the feeling of superior</li></ul>  | Show a liking to be isolated  |  |  |  |  |
| 46.  | The psychologist who defined the ra (1) Gesell. (4) Jean Piaget.   | nge of age for adolescence a  (2) Stott.  (5) Sigmund Freud.  | as 13 years to 18 years is (3) Hurlock.  |  |  |  |
| 47.  | Following are some characteristics so<br>A - Chances are given to the<br>B - Impose rules and regulation<br>C - Guidance is given to the<br>D - Competitive nature among<br>The characteristics which help in incomp   | child to participate in the da<br>ons according to parents' wish<br>child in problematic situations<br>the siblings   | nes<br>s   |  |  |  |

- 48. A cognitive characteristic shown by an adolescent with mental stress is
  - (1) laziness in action.
  - (2) guilty feeling.

(1) A and B only.

(4) B and C only.

- (3) the tendency to avoid the company of others.
- (4) not responding to common situations.
- (5) weaknesses in remembering subject matters.
- **49.** Following are some facts presented about quality control of products.
  - A It is compulsory to obtain the SLS certification for large scale productions.
  - B Social ethics and social responsibilities should be emphasized in an enterprise.

(2) A and C only.

(5) C and D only.

- C The entrepreneur can decide the labelling according to his wishes.
- D Product storage should be decided on the nature of packaging materials.

The correct fact/facts from them is/are

(1) A only.

(2) B only.

(3) A and D only.

(3) A and D only.

(4) B and C only.

- (5) C and D only.
- 50. A fact to be emphasized in planning a small scale business is
  - (1) aiming at high goals.
  - (2) to follow a successful business.
  - (3) to use only the five S (5S) concept.
  - (4) to get involved in new products according to the success of the business.
  - (5) that by increasing only the monetary inputs productivity could be increased.