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

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இலங்கைப் பரீட்சைத் திணைக்களம்
Department of Examinations, Sri Lanka

84 E I, II

අධ්‍යයන පොදු සහතික පත්‍ර (සාමාන්‍ය පෙළ) විභාගය, 2023(2024)
கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2023(2024)
General Certificate of Education (Ord. Level) Examination, 2023(2024)

ශිල්ප කලා	I, II
நுண்கலை	I, II
Arts and Crafts	**I, 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.

Arts and Crafts I

Instructions :

* *Answer **all** questions.*
* *In each of the questions from **1** to **40**, pick one of the alternatives* (1), (2), (3), (4), *which is **correct or most appropriate**.*
* ***Mark a cross** (×) **on the number corresponding to your choice in the answer sheet provided.***
* *Further instructions are given on the back of the answer sheet. Follow them carefully.*

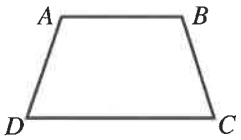
1. The most effective measure that can be taken by the government to preserve the Sri Lankan folk arts is,
(1) displaying hoardings in every town in order to create an awareness on folk arts.
(2) establishing craft villages.
(3) providing incentives to folk artists.
(4) purchasing and selling all products related to folk arts by the government.

2. Select the answer that consists the inclined lines that can be drawn using the pair of set squares in the geometrical tool box.
(1) 30°, 45°, 60° (2) 30°, 45°, 90°
(3) 45°, 60°, 90° (4) 90°, 180°, 240°

3. What is the answer that consists the correct occasions in which the geometrical tool given in this image should be used?

(1) In drawing circles and arcs
(2) In marking arcs and in drawing curved lines
(3) In dividing a line into equal parts and in checking measurements
(4) In drawing curved lines and in dividing lines into parts

4. The type of standard lines used to draw the given diagram is,



(1) straight lines. (2) thick continuous lines.
(3) thin continuous lines. (4) thin chain lines.

5. Select the statement that correctly defines the segment of a circle which is a part of a circle.
(1) The part divided by two radii and by the arc inside it is known as the segment of a circle.
(2) The part divided by the diameter and a part of an arc is known as the segment of a circle.
(3) When the circle is divided into four equal parts and one part of it is known as the segment of a circle.
(4) The part that consists of an arc and a chord is known as the segment of a circle.

[see page two

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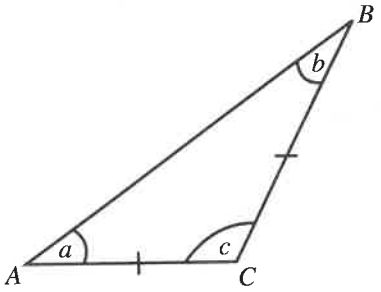
6. What is the technique used to obtain foci in drawing an ellipse from those given below?
(1) Take one half of the major axis to the pair of compasses and intersect to both sides of the major axis by taking any end of the minor axis as the centre.
(2) Take one of the minor axis to the pair of compasses and intersect to both sides of the minor axis by taking any end of the major axis as the centre.
(3) Take one half of the major axis to the pair of compasses and intersect to both sides of the directrix axis.
(4) Take one half of the minor axis to the pair of compasses and intersect to both sides by holding it at the end of the directrix axis.

7. Select the answer that consists of the special characteristics of the obtuse angled triangle shown in the given diagram.



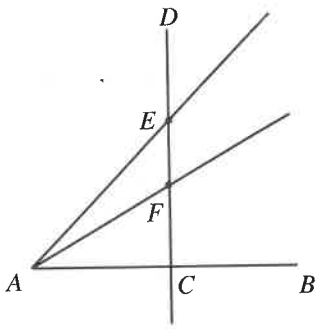
(1) Angle c is 90° while AC and BC sides are equal.
(2) a and b angles are not equal while AC and BC sides are equal.
(3) Angle c is bigger than 90° and the value of the remaining two angles is equal.
(4) Angle c is bigger than 90° and the value of the remaining two angles is not equal.

8. The characteristics of a certain plane geometrical shape are given below.
- Opposite sides are equal and parallel
- Angles are right angles
- Diagonals are equal in length
- Diagonals bisect each other

What is that plane geometrical shape from the following?
(1) triangle (2) square (3) rectangle (4) trapezium

9. How many regular pentagons were used for the cloth pentagon ball created by you in the classroom?
(1) 6 (2) 8 (3) 10 (4) 12

10. A technique of drawing regular polygons is shown in the given diagram. In drawing a regular pentagon, one should first,



(1) divide the CD line into five equal parts.
(2) bisect the line CE.
(3) bisect EF line sector.
(4) bisect AF line sector.

11. Select the option that consists of a basic colour, secondary colour and a tertiary colour, among the colours used for beautifying clothes, respectively.
(1) red, green, purple (2) yellow, blue purple, red orange
(3) blue, orange, red purple (4) green, yellow, yellow green

12. In cloth painting, in order to turn a bright colour into a light colour, one should add
(1) a blackish colour. (2) a whitish colour.
(3) a yellowish colour. (4) a pinkish colour.

13. The brushes 4-5 used in painting are required for
(1) marking fine lines and boundary lines.
(2) painting a larger area at once.
(3) painting flowers, fruits and leaves that are somewhat bigger.
(4) drawing designs for edges.

[*see page three*

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14. In creating Batik products, in order to reduce the amount of cracks in the wax,
(1) the amount of Paraffin wax should be increased in the mixture.
(2) the amount of rosan should be increased in the mixture.
(3) the amount of bees' wax should be increased in the mixture.
(4) the amount of Paraffin wax should be reduced.

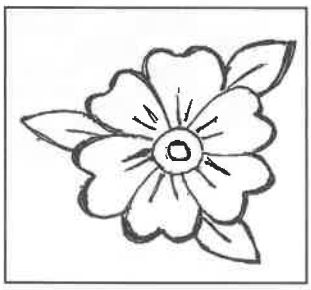
15. Pre-treatment is a process done before beautifying clothing materials. What is expected from pre-treatment is
(1) to give the strength needed for the manufactured clothing materials.
(2) to colour the clothing materials with one colour.
(3) to remove waste that is added to the clothing materials.
(4) to increase the weight of the manufactured clothing materials.

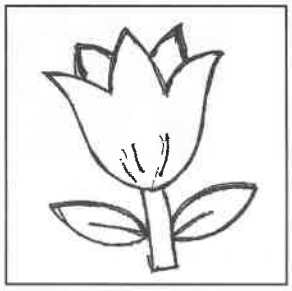
16. The tree from which fibres are taken to weave linen cloths is
(1) Flex. (2) Jute. (3) Ramie. (4) Manila.

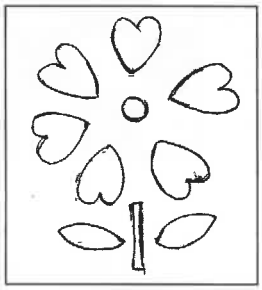
17. In fire test which is done to identify fibres, the types of clothing that leave very small clumps of ash with a smell of burning feathers is,
(1) wool and linen. (2) linen and cotton.
(3) wool and silk. (4) silk and cotton.

18. Several steps of the mould printing method are given below.
A - Seal in a way to create a pattern
B - Draw a design
C - Fix the cloth on the base board
D - Apply paint on the surface of the mould
E - Cut the design using a cutter
Select the option that consists of the correct order of the above method.
(1) *A B C D E* (2) *B E C D A* (3) *C D E A B* (4) *D E A B C*

19. What is the correct image that should be used in preparing a stencil for cloth printing?


(1)


(2)


(3)

(4)

20. Clay products are decorated at different occasions and carving as well as scribbling patterns are done in
(1) during the production stage. (2) after the first firing.
(3) after the second firing. (4) during the leather hardening stage.

21. What assists in heaving the thread layers for weaving done by putting threads for weft through the shed in fly shuttle weaving?
(1) batten (2) levers (3) reed (4) healols

22. The weaving machine used to obtain a high capacity in a shorter time period in cloth weaving technology is the
(1) table loom. (2) utility loom. (3) fly shuttle loom. (4) power loom.

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23. Leasing is done by using the neck in preparing a warp. How are threads drawn through the neck as to obtain leases?

(1) by drawing one thread from each loop hole.
(2) by drawing threads from loop holes alternately.
(3) draw one thread from each loop hole and one from among them.
(4) by counting according to the pattern and draw threads accordingly.

24. It is expected to use 20 warp threads for one centimetre in a serviette warp that is 60 metres long and 30 centimetres wide. The number of warp threads needed for this warp is,

(1) $30 \times 20 = 600$ (2) $60 \times 20 = 1200$ (3) $60 \times 30 = 1800$ (4) $60 \times 30 \times 20 = 36000$

25. The length of the number of threads required for a loom having 30 warp threads per centimetre which is 100 metres long and 50 centimetres wide is,

(1) $50 \times 30 \times 2 = 3000$ kilometres.
(2) $100 \times 50 \times 2 = 10000$ kilometres.
(3) $840 \times 100 = 84000$ kilometres.
(4) $100 \times 50 \times 30 = 150000$ kilometres.

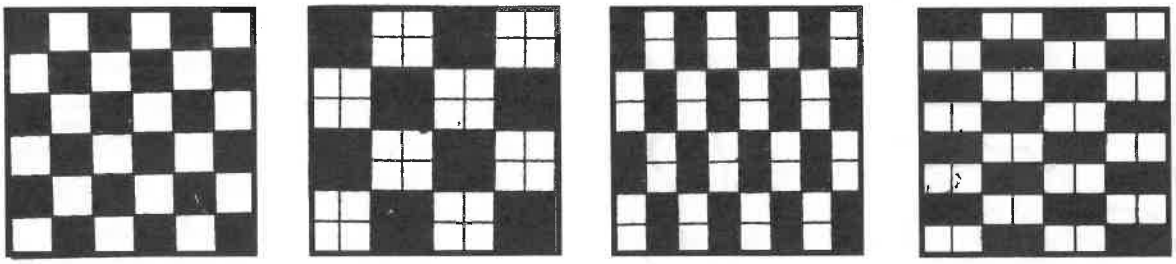
26. 5 kg of $^{2}/_{40}^{s}$ threads have been used for a weaving. The number of skeins of thread in it is,

(1) 20. (2) 40. (3) 100. (4) 120.

27. For a loom which is 100 metres long and 50 centimetres wide, it is expected to weave with the thread no. $^{2}/_{60}^{s}$ using 48 threads per centimetre. What is the weight of the threads required for that?

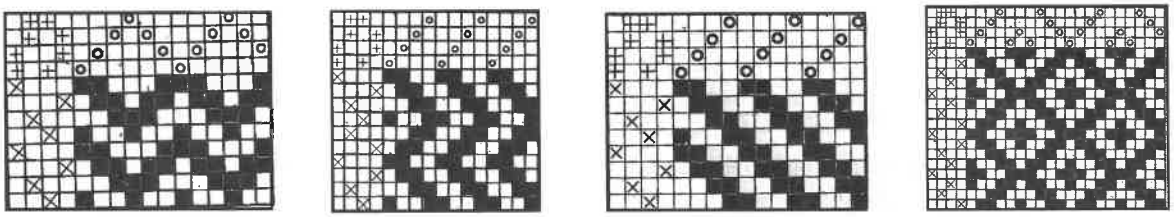
(1) $\frac{100 \times 50 \times 48 \times 2}{1000 \times 60} = 8$ kg
(2) $\frac{1000 \times 50 \times 2}{100 \times 60} = 100$ kg
(3) $\frac{1000 \times 48 \times 50}{100 \times 60 \times 2} = 200$ kg
(4) $\frac{1000 \times 60 \times 48}{100 \times 50 \times 2} = 288$ kg

28. Select the mat weave which is a pattern created by tying two warp-weft threads or more equally in plain weave.



(1) (2) (3) (4)

29. Select the option that has correctly named the following weaving patterns respectively.



(a) (b) (c) (d)

(1) zigzag twill, regular twill, diamond twill, pointed twill.
(2) regular twill, diamond twill, pointed twill, zigzag twill
(3) diamond twill, pointed twill, zigzag twill, regular twill
(4) pointed twill, zigzag twill, regular twill, diamond twill

30. 4 kilograms of threads were utilized to weave a table mat loom and there were 80 two ply skeins of thread in it. What is the number of that thread from those given below?

(1) $^{2}/_{40}^{s}$ (2) $^{2}/_{60}^{s}$ (3) $^{2}/_{80}^{s}$ (4) 80^{s}

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31. What are the products made by using 'pihiti clay' known as primary clay in clay goods production?
(1) tiles, bricks and decorative goods
(2) floor tiles, flower pots and clay pots
(3) porcelain goods, toothpaste and face powder
(4) flint stones, kiln accessories, muffle boxes

32. A sticky material which is considered as the main ingredient in producing ceramic goods that consists of two chemical water molecules and a very small percentage of iron is,
(1) Kaolin. (2) Feldspar. (3) Dolamite. (4) Bentonite.

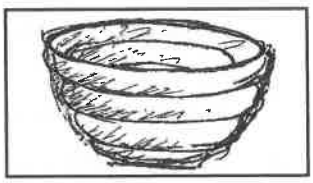
33. Different types of clay used for various products are found as deposits around the country. The wet zone Kaolin clay deposit is located in
(1) Dediyawala and Piliyandala.
(2) Boralesgamuwa and Meetiyagoda.
(3) Kelaniya and Biyagama.
(4) Molagoda and Dewalegama.

34. In the production of clay goods, it is essential to know the physical and chemical characteristics of clay. The main factor that affects to maintain the required shape of a good is,
(1) equilibrium. (2) colour. (3) shrinkage. (4) plasticity.

35. Firing clay goods is done in two occasions and what is the category of goods for which only bisquit firing is sufficient?
(1) plates, cups and saurces, jugs
(2) hygienic goods, sinks, jugs
(3) clay pots, decanters, tile bricks
(4) flint bricks, fire turrets, saggar boxes

36. The maximum range of temperature that can be maintained in a local klin that is commonly used in rural areas for firing clay goods is,
(1) 850 °C - 900 °C
(2) 900 °C - 950 °C
(3) 950 °C - 1000 °C
(4) 1000 °C - 1050 °C

37. The technique used to create the ceramic goods with the shape given in the figure is,



(1) moulding method.
(2) potters wheel.
(3) coiling method.
(4) slab method.

38. The paint used on the water pot in beautifying a clay good with the marble pattern method is,
(1) water colour.
(2) poster paint.
(3) fabric paint.
(4) oil paint.

39. Clay goods are categorized according to the amount of temperature used for firing. Among these, a maximum amount of temperature is required for firing which goods among the following?
(1) earthen ware (2) porcelain (3) stoneware (4) red clay goods

40. Many methods are used for the production of clay goods. The most productive method suitable when a large number of goods of the same shape is required is,
(1) use of potters wheel.
(2) using moulding method.
(3) using coiling method.
(4) using slab method.

* *

[*see page six*

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இலங்கைப் பரீட்சைத் திணைக்களம்
Department of Examinations, Sri Lanka

84 E I, II

අධ්‍යයන පොදු සහතික පත්‍ර (සාමාන්‍ය පෙළ) විභාගය, 2023 (2024)
கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2023 (2024)
General Certificate of Education (Ord. Level) Examination, 2023 (2024)

ශිල්ප කලා I, II
நுண்கலை I, II
Arts and Crafts I, II

Arts and Crafts II

* *Answer **five** questions, including question **one** and **four** other questions.*

1. The Sports Committee has decided to assign all the decorations of the interhouse sportsmeet of your school held this year to the students of the Arts and Crafts section.

(i) Draw a model of a poster suitable to inform the community of the sportsmeet.

(ii) Draw a painting suitable for the cover page of the invitation to be sent to the invitees.

(iii) Name **two** types of reed that can be used to create the names of the houses with reference to weaving methods.

(iv) Draw a design that can be created using moulding method for decorating the cloths of the students who carry the name boards of the houses in the inauguration ceremony.

(v) Draw a figure that is suitable for a symbol to be worn by students in 'Paravi' house for identification.

(vi) Mention **two** advantages of using artificial flower arrangements given to students during the award of certificates.

(vii) Draw the figure of a package that is suitable to put the snacks given to members of the house during the interval.

(viii) Write **two** types of natural seeds that can be used to make jewellery to be worn on the neck of the members of the band.

(ix) Rs. 800 will have to be spent to digital print the flag of a house and in printing five flags a 20% discount will be offered. Calculate the amount required to print five house flags.

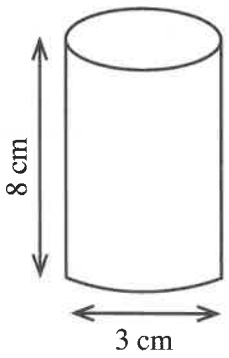
(x) Draw a model of the cup awarded to the best sportsmen/women.

2. In the production of goods, geometry and mechanical drawing are used to create plan figures.

(i) Create an equilateral *ABC* triangle of which a side is 4 cm using the compass and the ruler.

(ii) Draw *AB* line which is 7 cm and create a perpendicular to the point located 4 cm in distance to *A*.

(iii) Draw the development figure of the cylinder given in the diagram according to the accurate measures.



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3. Decorative goods produced attractively can be seen in the market at present.
   (i) Write **two** stitching methods used in ribbon embroidery method as home decorations.
   (ii) Mention the way in which 'paan-clay' mixture is prepared for the production of artificial jewellery and mention the safety methods used as insect repellent.
   (iii) Draw a painting suitable to decorate your school bag in heat and bond method. Mention in brief the way it is created using that method.

4. The details of a thread loom required to make a table mat warp are given below.
   * The length of the warp is 50 metres
   * The width of the warp is 20 centimetres
   * The number of warp threads used per one centimetre is 40
   * The number of warp threads is 2^S / 40
   (i) Name **two** weaving patterns suitable to weave table mats.
   (ii) Show in graphs the emergence of the **two** threads wearing patterns you named in (i) above and name them.
   (iii) Calculate the weight of the warp threads required to weave the table mat warp.

5. At present, different decorative methods are used in cloth decorating.
   (i) What are the basic colours that should be mixed to obtain purple colour in painting by hand?
   (ii) Mention **two** post treatment methods done to make the paints of the printed clothing materials durable and write a brief note about **one** of them.
   (iii) Draw a design suitable for a Batik creation and describe how to decorate it by using **one** colour.

6. It is clear that from pre-historic era, efforts have been made to produce clay goods.
   (i) Mention **two** factors that affect the production of clay.
   (ii) State the **two** main methods of seasoning clay and explain **one** of them.
   (iii) Describe the steps of preparing a flower vase using clay slabs.

7. Different techniques are used to decorate the environment we live in.
   (i) Mention two techniques of building creations in landscaping.
   (ii) State **two** methods of decorating clay goods with papers and describe **one** of them.
   (iii) Name a medium for a statue suitable to decorate the interior of a house and describe the way in which that statue can be created.

* * *