PAPER 2 1 hour 20 minutes

ESSAY

PART A

[30 marks]

Answer Question **1 [Compulsory]** *and* **any** *other question.*

1. (*a*) A group of unemployed mothers in your community have approached you to demonstrate the making of sweet pancakes for them to learn. Outline the recipe needed for making the sweet pancakes.

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[6 marks]

(*b*) A couple had visitors unexpectedly during the weekend. They served queen cakes and fruit drink. Outline **three** reasons for the couple's decision to serve a fruit drink with the queen cakes.

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[6 marks]

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(c) Joana is using the freehand cutting technique to sew a shirt for her brother. State any **three** preparations to be done before the shirt could be ready for sewing.

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[3 marks]

2. (a) As a Career Technology learner, explain any two factors that can influence a school's choice of fabric for their school uniform.

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[6 marks]

(b) A maidservant was asked to purchase a list of food items from the supermarket. When she entered the supermarket, she noticed the shelf that had the food items was labelled food commodities. How would she differentiate between *food commodities* and *food*.

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[4 marks]

(c) Akorfa went to a restaurant and insisted that a table should be set for her visitors. State two reasons why it is important to set the table.

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[2 marks]

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(*d*) The twins missed the lesson on sewing tools and equipment. As the class prefect, list any **three** parts of the sewing machine to help the twins understand the lesson they missed.

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[3 marks]

3. (*a*) Favour opened a new food laboratory in her community. List **four** types of accidents that could occur in the food laboratory.

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[4 marks]

(*b*) Mrs. Owusu is a housewife and she wants to support her husband to take care of the home financially. She decides to establish a small-scale business in her area. Explain the first **three** steps involved in setting up the business.

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(ii) .....

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(iii) .....

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[9 marks]

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(c) In Mr Asare's home, banku and okro soup is prepared every evening. His wife pays much attention to the cutting of the okro for the soup and this always delays preparation for dinner. State **one** design brief for the problem of eating late.

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[2 marks]

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PART B

[30 marks]

Answer Question **4 [Compulsory]** *and* **any** *other* **one** *question.*

4. Figure 1 shows the sketch of two sheet metals joined together. *Use it to answer the questions that follow.*

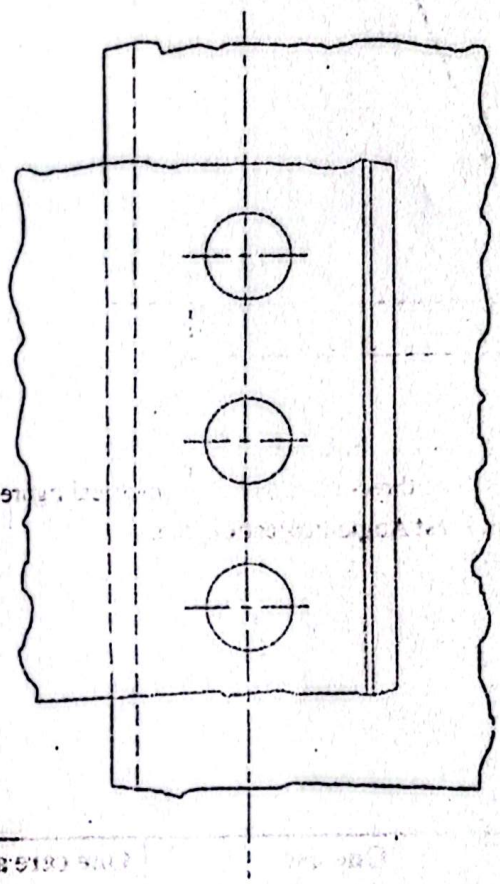


Figure 1

(*a*) (i) Identify the **type of joint** used to join the sheet metals.

(ii) List **three** tools for making the joint.

[5 marks]

(*b*) Re-arrange the following steps for making the joint in a **sequential order:**

I. Hold down the plates with a rivet set;

II. Finish off the riveting with an appropriate hammer;

III. Separate plates and remove all burs;

IV. Mark out the holes to receive the rivet and drill;

V. Select a suitable rivet and insert it in the holes from the back;

VI. Remove the rivet set and use the face of the hammer to spread out the tail end of the rivet.

[6 marks]

(*c*) (i) State **two** safety precautions to be observed when drilling the hole.

(ii) State **one** reason why riveting was chosen as the **best method of assembling** the sheet metals.

[4 marks]

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5. (*a*) Figure 2 shows the front view of a three-dimensional geometrical figure.

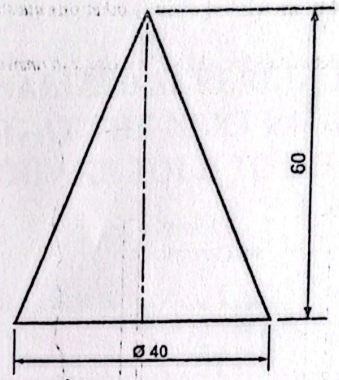


Figure 2

(i) Identify the **name** of the three-dimensional geometrical figure.

(ii) Draw to full size in **First Angle Projection**, the:

(α) front view;

(β) plan.

[8 marks]

(*b*) Copy and complete Table 1.

Table 1

Tool	One use	One care and maintenance
(i) Trowel		
(ii) Spirit level		
(iii) Float		

[7 marks]

6. (*a*) (i) Make a sketch of a G-clamp and identify the frame and the fixed jaw.

(ii) State **one** use of the G-clamp.

[8 marks]

(*b*) (i) A cabinet maker is making wooden tables for a nursery school. Identify **two** suitable finishes that can be applied on the furniture.

(ii) List **two** thinning agents used to dilute finishes to make application easy.

[4 marks]

(*c*) State **three** factors to consider when choosing a mechanism for a project. [3 marks]

END OF ESSAY TEST

Answer all the questions.

Each question is followed by **four** *options lettered* **A** *to* **D**. *Find the correct option for* **each** *question and shade in pencil on your answer sheet the answer space which bears the same letter as the option you have chosen. Give only* **one** *answer to* **each** *question. An example is given below.*

Tools are oiled after use to

A. ensure they remain accurate.
B. prevent them from rusting.
C. preserve the cutting edges.
D. maintain their attractiveness.

The correct answer is **prevent them from rusting** *which is lettered* **B** *and therefore answer space* **B** *would be shaded.*

⊂A ⊃ ⊂B⊃ ⊂C ⊃ ⊂D ⊃ ⊂E ⊃

Think carefully before you shade the answer spaces; erase completely **any** *answer you wish to change.*

Do all rough work in this question paper.

Now answer the following questions.

1. The ability of fabric that makes it resistant to tear and good for apparel is its

A. durability.
B. porosity.
C. flexibility.
D. elasticity.

2. Some food manufacturers add smart food materials to

A. increase food quantity.
B. reduce price of product.
C. extend product life.
D. reduce food content.

3. Ama has been assigned to work on an outfit for her landlords daughter who has a slim figure. The perfect outfit for such figures should have

A. pleats.
B. tucks.
C. darts.
D. gathers.

4. Kofi sweats profusely after performing an activity that requires a lot of energy. He can control it by

A. wearing clean cloths.
B. bathing twice daily.
C. using lime in his armpit.
D. keeping pubic hair short.

5. To prevent scalds in the kitchen, it is advisable to

A. open lids of saucepans on fire towards the cook.
B. turn handles of pans on fire towards the cook.
C. drop wet foods quickly into hot oil on fire.
D. use potholders when removing food on fire.

6. The appropriate measuring tool Asare can use to measure the armhole and neckline of his clients shirt is a

A. curve marker.
B. yard ruler.
C. sewing gauge.
D. transparent ruler.

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7. During the festive season, the Johnson's family received whole meat from friends. The best way to soften the meat is by

A. cutting across the grain before cooking.
B. using enough salt when cooking.
C. adding ripe pawpaw leaves before cooking.
D. pounding it in a mortar with pestle.

8. A dish that can be cooked using the type of boiling in which the liquid is absorbed by the food is boiled

A. yam.
B. plantain.
C. rice.
D. cassava.

9. To prevent needle from breaking when sewing, it is important to

A. use thick seams.
B. tighten needle screw.
C. loosen presser foot.
D. pull fabric while stitching.

10. Elizabeth desires to be a food technologist in future. The goals she need to set to help reach her ultimate goals are

A. short-term goals.
B. long-term goals.
C. career goals.
D. personal goals.

11. When preparing queen cakes, the addition of flour to the mixture alternating it with egg bit by bit prevents the cake from

A. burning.
B. curdling.
C. sticking to the pan.
D. sinking in the middle.

12. In order to obtain the right thickness of soup when using gelatin, it is important to

A. use a specific brand.
B. correctly measure before use.
C. add directly into the soup.
D. add salt to gelatin mixture.

13. Lack of proper toilet facilities has forced many people to

A. defecate into water bodies.
B. construct more KVIP toilets.
C. dump refuse into gutters.
D. suffer from fever.

14. An entrepreneur continuously learns, questions and thinks outside of prescribed formulas to develop new products. This ability describes

A. motivation.
B. dedication.
C. resourcefulness.
D. creativity.

15. Frank uses free-hand cutting to cut an outfit to be worn by a birthday celebrant. The advantage of using this technique is that

A. a lot of fabric is used.
B. it saves time and energy.
C. it is easier and safer for beginners.
D. patterns can be kept for future use.

16. To maintain the efficiency of a kitchen knife set,

A. store appropriately after use.
B. clean them regularly.
C. sterilize them after use.
D. sharpen them regularly.

17. A fabric made from cotton fibre can be classified as

A. animal originated fibres.
B. synthetic fibres.
C. regenerated fibres.
D. plant originated fibres.

Turn over

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18. Zenabu's child has been confirmed to have iodine deficiency. Symptoms the child is likely to experience include

A. tooth decay.
B. night blindness.
C. swollen neck.
D. hair loss.

19. The harmful and excessive quantities of substances introduced in the atmosphere are caused by

A. poisonous gases from factories.
B. spills from oil by industries.
C. rupture of underground storage tanks.
D. solid waste seepage.

20. A suitable stitch for neatening a plain seam is

A. cross stitches.
B. hemming stitches.
C. back stitches.
D. overcasting stitches.

21. A metal worker is filing a piece of steel to smoothen the rough edges for a custom project. Which safety clothing should the metal worker use to protect the fingers from injury?

A. Gloves
B. Goggles
C. Helmet
D. Mask

22. In some communities, females are not to offer courses such as Building Construction, Mechanical Engineering, Carpentry and Plumbing. This practice is an example of

A. bias.
B. culture.
C. gender.
D. religion.

23. Your Career Technology teacher has asked you to practice sketching objects in two-point perspective. The first line to draw when sketching objects in two-point perspective is the

A. centre line.
B. horizon line
C. receding line.
D. vanishing line.

24. A student has designed and constructed a coffee table which needs to be tested and evaluated. The criteria to use at this stage is the

A. analysis.
B. possible solutions.
C. specifications.
D. working drawings.

25. A funnel is to be produced from a corrugated sheet metal. The corrugated sheet metal must first be flattened on the

A. bending stake.
B. tinman's anvil.
C. folding bar.
D. funnel stake.

26. In the design process, an important reason for creating folios is to

A. allow designers to experiment with different concepts.
B. ensure final product aligns with original vision.
C. organize and present ideas clearly.
D. provide visual representation of the project.

27. The type of force that tends to pull a structure apart is

A. compression force.
B. tension force.
C. torsion force.
D. shear force.

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28. To avoid wastage of materials when constructing a furniture, a woodworker measures every workpiece using a
A. folding rule.
B. steel rule.
C. surveyor's tape.
D. vernier caliper.

29. During walling, the appropriate striking tool to use in conjunction with the bolster for cutting bricks is
A. brick hammer.
B. claw hammer.
C. club hammer.
D. warrington hammer.

30. A manufacturing company intends to produce artefacts from materials with improved properties. The most appropriate materials to choose are
A. compliant materials.
B. modern materials.
C. resistant materials.
D. smart materials.

31. A new company is seeking ways of attracting customers. Which of the following approaches should the manager adopt?
A. Employ inexperience business hands
B. Seek fat loans from the bank
C. Brand the packaged products well
D. Set up the business at the outskirts of the town

32. A product designer is making flexible wristbands for fitness tracking. The suitable compliant material to use is
A. mild steel.
B. polyvinyl chloride.
C. solid wood.
D. silicone rubber.

Figure 1 shows a wooden chair to be used in a Nursery 2 classroom. *Use it to answer questions* **33** *and* **34**.

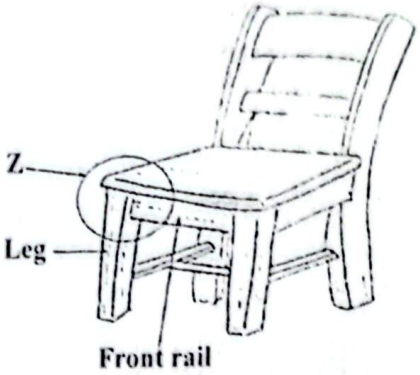


Figure 1

33. The most appropriate joint used for joining the leg and the front rail at **Z** is
A. dove tail.
B. cross halving.
C. mortise and tenon.
D. tongue and groove.

34. The type of fasteners to use to make the chair strong and durable are
A. bolts and nuts.
B. contact glue and rivets.
C. screws and rivets.
D. white glue and nails.

35. A mason is preparing a concrete mix to lay the foundation for a new building. The aggregate that will be added to the concrete mix to reduce shrinkage is
A. cement.
B. sand.
C. stones.
D. water.

36. A manufacturer is designing a mechanical dancing toy for children. The toy's head and arms should move in rhythmic pattern when in use. The most suitable mechanism to use is a
A. cam.
B. gear.
C. pulley.
D. screw.

37. A construction company is tasked to construct a high rise building. The reason for considering forces in the design is to

A. enhance stability.
B. improve appearance.
C. increase weight.
D. reduce cost.

38. A bookshelf made from mahogany is ready for a finish. The first step to follow in applying the finish is to

A. apply sanding sealer.
B. clean dust off the work.
C. dilute the finish.
D. dress surface with plane.

39. Students going to work in the workshop must wear appropriate footwear in order to

A. prevent students from slipping.
B. prevent objects from piercing the feet.
C. make students walk with confidence.
D. make students look smart.

40. A manufacturing company has requested for a design of an artefact to be used for transferring fuel from a gallon into a bottle. As a Career Technology student, which solid figure will be **suitable** for the design?

A. Cone
B. Cube
C. Cylinder
D. Prism

END OF PAPER

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