

ESSAY

[30 marks]

our sister is celebrating her birthday at home. Plain rice and fruit salad are to be served.

- Describe how the phase

(ii) State two changes observed in the rice after it has been boiled.

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(b) Outline the steps to be followed in the preparation of the syrup for the fruit salad.

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- Figure 1 is a line graph showing the percentage of respondents who believe that the U.S. should take action to reduce global warming, broken down by age group and education level. The Y-axis represents the percentage of respondents, ranging from 0 to 100. The X-axis represents the age group, with categories: 18-29, 30-49, 50-69, and 70+. The legend indicates four education levels: High School, Some College, Bachelor's, and Master's/PhD. The graph shows that older respondents (50-69 and 70+) are more likely to believe that the U.S. should take action to reduce global warming, with the percentage increasing with age. Higher education levels are also associated with a higher percentage of respondents believing that the U.S. should take action to reduce global warming, with the percentage increasing with education level.
- | Age Group | High School | Some College | Bachelor's | Master's/PhD |
|-----------|-------------|--------------|------------|--------------|
| 18-29 | ~45% | ~55% | ~65% | ~75% |
| 30-49 | ~55% | ~65% | ~75% | ~85% |
| 50-69 | ~65% | ~75% | ~85% | ~95% |
| 70+ | ~75% | ~85% | ~95% | ~100% |

2. (a) Dela is organizing a buffet party for her work colleagues.

(i) State two reasons why she should garnish the food to be served.

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[4 marks]

(ii) State three suitable food items that can be used to garnish plain rice at the buffet party.

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[3 marks]

(b) Aunty Mary uses charcoal as fuel for cooking at home. Give two reasons to convince her to use liquefied Petroleum Gas (L.P.G.) instead of charcoal.

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[4 marks]

(c) State two functions of a table cloth in table setting.

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[4 marks]

5. (a) Copy and complete Table 1.

Table 1

<i>Place of work</i>	<i>One measuring tool</i>	<i>One marking out tool</i>
(i) Building site		
(ii) Wood workshop		
(iii) Metal workshop		

[7 mark]

- (b) (i) Make a freehand pictorial sketch of the *centre punch*.
 (ii) Indicate the point angle of the centre punch sketched in (b)(i).
 (iii) State one use of the centre punch.

[8 mark]

6. (a) State one finish suitable for each of the following products:

- (i) plastered block wall;
 (ii) metal gate;
 (iii) wooden wardrobe.

[3 mark]

- (b) In designing and making a kitchen stool, which saw would be appropriate for cutting a given length of wood:

- (i) across the grain;
 (ii) along the grain?

[4 mark]

- (c) A craftsman has been tasked to produce a table. State two suitable materials each used for joining a:

- (i) wooden top to a metal base;
 (ii) plastic top to a wooden base.

[4 mark]

- (d) A JHS graduate is planning to establish a susu box manufacturing business. State four factors to consider in setting up the business.

[4 mark]

END OF ESSAY TEST

- (a) Akosua felt unwell after eating waakye from the school canteen. The doctor confirmed it was food poisoning. List **four** signs and symptoms she exhibited.

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[4 marks]

- (b) Araba cut some fruits to prepare the family's favourite fruit salad but found out that the colour of the cut bananas had changed after an hour. Describe what caused the change in colour.

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[4 marks]

- (c) Kwame realizes that the mother's pot of rice has become slimy the next morning. State **one** cause of the spoilage.

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[2 marks]

- (d) Safe substances are used for preserving different types of foods. List **one** safe substance for preserving **each** of the following foods:

(i) fresh fish;.....

(ii) fruits;.....

(iii) onion.....

[3 marks]

- (e) State **two** ways of finishing the edge of a plain seam.

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[2 marks]

PART B

[30 marks]

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

- 4 Figure 1 shows the sketch of a tenon.

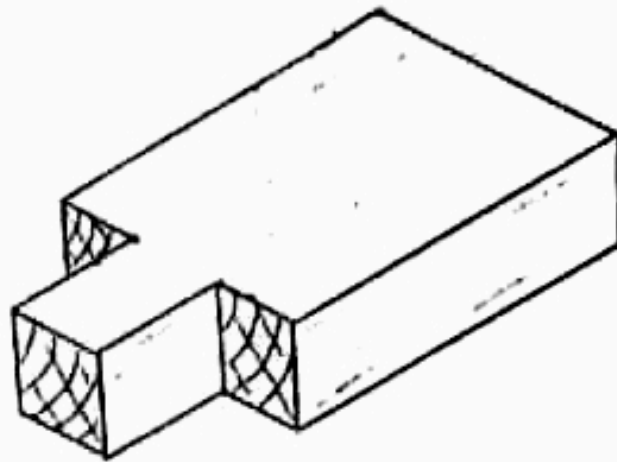


Figure 1

- (a) Re-arrange the following operations for preparing the tenon in sequential order:
- I. cut off the wastes on the sides of the tenon;
 - II. prepare the workpiece to the required dimensions;
 - III. clean the workpiece with the appropriate tool;
 - IV. measure and cut the workpiece;
 - V. mark-out to the required sizes;
 - VI. hold the workpiece firmly in position and cut the sides of the tenon.
- [6 marks]
- (b) (i) List two tools for preparing the tenon.
- (ii) List two adhesives for assembling the joint.
- [4 marks]
- (c) (i) State one reason why safety must be observed in the workshop when making the joint.
- (ii) Give one importance of appraising the tenon produced.
- [5 marks]

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

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. One important factor to consider in meal planning is foods in season because
 - A. their cooking time is reduced.
 - B. they cut down on cost.
 - C. meal is readily available.
 - D. they can easily be preserved.
2. To obtain the correct texture during the production of rock buns for sale, it is appropriate to
 - A. increase the sugar content.
 - B. decrease the fat content.
 - C. measure ingredient correctly.
 - D. add more diluted milk.
3. Mrs. Mensah who is to prepare banku and grilled tilapia for her family's meal, marinated the fresh tilapia before grilling to enhance its
 - A. colour and taste.
 - B. shape and colour.
 - C. taste and texture.
 - D. texture and shape.
4. The main reason why it is advisable for people to frequently take in water is to
 - A. enhance perspiration.
 - B. hydrate the body.
 - C. gain weight.
 - D. make one satisfied.
5. The best kitchen knife for peeling oranges is the
 - A. butcher's knife.
 - B. cook's knife.
 - C. paring knife.
 - D. serrated knife.

6. Kofi went to a restaurant and selected a menu with individually priced dishes. The name of this kind of service is
- table d' hôte.
 - special party menu.
 - ethnic menu.
 - a la carte.
7. The proper arrangement of tools and equipment in the food laboratory enables Borketey to
- stay healthy.
 - work sequentially.
 - save energy and time.
 - keep the laboratory clean.
8. When steaming yakayake, a tight fitting lid is used to cover the saucepan in order to
- enhance the flavour of the food.
 - increase the temperature of water.
 - prevent food from breaking.
 - maintain the temperature of water.
9. Your headmistress is to organize a party for graduating students. She decided to use the buffet service style because
- crockery is limited.
 - space is limited.
 - time is minimal.
 - number of guest is large.
10. Kofi is using the freehand cutting technique to cut an outfit to be worn to a wedding. The most important factor to consider in his choice of fabric is
- colour of fabric.
 - motifs in fabric.
 - quantity of fabric.
 - texture of fabric.
11. An example of kitchen hygiene practice is
- cleaning food items before use.
 - washing utensils before use.
 - washing hands before handling food.
 - wearing clean clothes.
12. A young entrepreneur is always researching into how to improve product and skills to bring about change in an establishment. This young entrepreneur is described as being
- confident.
 - dedicated.
 - determined.
 - innovative.
13. A dressmaker is required to take body measurement to ensure that
- garment drapes well.
 - garment fits well.
 - patterns match properly.
 - sewing is made easy.
14. In any business enterprise, assigning specific roles to workers
- enables them to manage resources well.
 - encourages them to be punctual at work.
 - encourages them to be regular at work.
 - makes them responsible always.
15. The basic ingredients used for the preparation of pouring batter to be used for fish fillet include
- diluted milk, sugar and flour.
 - flour, egg and diluted milk.
 - oil, egg and flour.
 - sugar, flour and milk.

16. Mrs. Obeng uses different types of knives in her kitchen everyday. The **best** way she can maintain the efficiency of the knives is to
- store in a drawer after use.
 - wash them frequently.
 - wash and wipe before storage.
 - sharpen them regularly.
17. Small colourful bits of food that make cooked food appealing are
- decorators.
 - garnishes.
 - preserves.
 - enhancers.
18. A suitable cutting tool used for neatening an open seam on a denim skirt is
- pinking shears.
 - cutting shears.
 - trimming scissors.
 - embroidery scissors.
19. A major equipment used to assemble parts of a garment is the
- neatening machine.
 - embroidery machine.
 - sewing machine.
 - quilting machine.
20. Amina eats well, has enough sleep, has good posture, takes care of her body. She is said to be practising
- personal hygiene.
 - good manners.
 - healthy lifestyle.
 - good grooming.
21. Craftsmen have been tasked to prepare an artefact for use in a household. Which of the following practices must **not** be encouraged in the workshop?
- Replacing broken parts of tools
 - Reporting frayed flexes
 - Tagging faulty equipment
 - Using a mushroomed head chisel
22. A welder is preparing to weld two pieces of metal together. The **most** appropriate equipment to protect the eye is
- contact lens.
 - face mask.
 - goggles.
 - spectacles.
23. A student is to produce an artefact using materials with consistent and predictable properties. Which type of material would be the **best** choice?
- Compliant
 - Modern
 - Resistant
 - Smart
24. In designing a frying pan, the handle should be made of a material that ensures safety and ease of use. Wood would be a good choice of material for the handle because it is a
- good conductor of electricity.
 - good conductor of heat.
 - poor conductor of electricity.
 - poor conductor of heat.

31. The most suitable method of assembling the handle of a butcher's knife is by

- A. brazing.
- B. gluing.
- C. riveting.
- D. soldering.

32. In forming and making a wooden chair, the suitable material for preparing the surface to receive final finish is

- A. abrasive.
- B. adhesive.
- C. aggregate.
- D. paint.

33. Pillars are required during the construction of a building in order to resist

- A. compression force.
- B. tension force.
- C. torsion force.
- D. twisting force.

34. The orthographic view of a kitchen stool is to be drawn such that the plan will be seen in the front elevation. Which of the following projections would you use to do the task?

- A. First Angle Orthographic Projection
- B. Isometric Projection
- C. Oblique Projection
- D. Third Angle Orthographic Projection

35. A designer is considering the type of joints to use in designing a wooden bookshelf. The aspect of the design process under consideration is

- A. construction.
- B. ergonomics.
- C. function.
- D. safety.

36.

Akweley has come up with variety of ideas in designing a new kitchen cabinet. It is important for her to write short notes on the ideas generated in order to

- A. develop the selected idea into an acceptable shape.
- B. indicate the reasons for accepting or rejecting an idea.
- C. reject the first idea generated.
- D. sketch final idea in pictorial view.

37.

An architect is working on a building plan. In drawing an inclined line, the most suitable instruments to be used are

- A. pair of compasses and rule.
- B. protractor and set square.
- C. rule and tee-square.
- D. tee-square and set-square.

38.

Your Career Technology teacher has assigned you to design and make a bottle opener. The first thing to do is to

- A. cut the metal piece into the required sizes.
- B. identify safety measures to observe.
- C. obtain the material required.
- D. prepare the working drawings.

39.

Two friends, Atta and Yaro, want to start a small scale money box producing business. Which of the following sources of capital is most appropriate for them?

- A. Bank loans
- B. Loans from potential customers
- C. Personal savings
- D. Savings and loans company

25. A football team was advised to purchase new sportswear made with modern materials because these materials
- A. are intelligent.
 - B. are responsive.
 - C. can absorb heat easily.
 - D. have improved properties.

26. A metal worker intends to create a circular pattern on a metal sheet. The most appropriate tool for marking-out circular shape is
- A. a pair of compasses.
 - B. a pair of dividers.
 - C. marking gauge.
 - D. inside caliper.

Figure 1 shows a container to be used for keeping waste on the school compound.

Use it to answer questions 27 and 28.

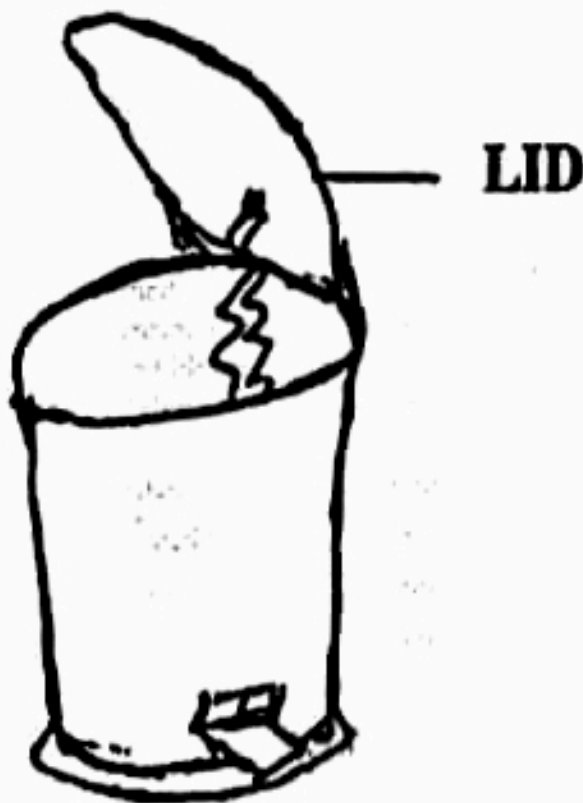


Figure 1

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27. The most suitable material to be used for making the container to be able to withstand the open environment is
- A. mild steel.
 - B. odum.
 - C. polyvinyl chloride.
 - D. wawa.
28. The most suitable mechanism for opening and closing the lid of the container is
- A. lever.
 - B. linkage.
 - C. rack and pinion.
 - D. screw mechanism.
29. A Career Technology student needs to construct a chair for use. It is important to take accurate measurement of the various parts before cutting to sizes in order to
- A. avoid wastage of material.
 - B. improve beauty of the chair.
 - C. make it strong.
 - D. obtain a unique design.
30. A woodworker is to construct a table in the workshop. The correct steps to follow in cutting a piece of wood into two is
- A. gauge along the marked position and remove waste wood with rip saw.
 - B. mark-out position to be cut, pare off sloping grooves and cut with cross-cut saw.
 - C. measure and mark-out, gauge along the grain and saw with rip saw.
 - D. Measure and mark-out position to be cut, square line round and saw with cross-cut saw.

Turn over

40. Elinam is considering establishing a small scale metal fabrication business after graduating from JHS. The first step to consider is
- A. advertising the business.
 - B. carrying out market research.
 - C. hiring employees.
 - D. renting an office.

END OF PAPER