

**EDUCATION-NEWS CONSULT  
OCT 2024 BECE HOME MOCK 1  
(2025 BECE)  
CAREER TECHNOLOGY 1 & 2  
1 HR, 45 MINS**

Name.....

Index Number.....



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**EDUCATION-NEWS CONSULT MOCK – OCTOBER 2024 EDITION FOR 2025 BECE**

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**SPECIAL PERFORMANCE BOOSTER – MOCK 1**

**OCTOBER 2024 CAREER TECHNOLOGY 1 HR, 50 MINS**

*Do not open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully. Write your name and index number in ink in the spaces provided above.*

*This booklet consists of two papers; I and II. Answer Paper 2 which comes first in your answer booklet and Paper 1 on your Objective Test answer sheet. Paper 2 will last for 1 hour after which the answer book let will be collected. Do not start Paper until you are told to do so. Paper 1 will last 45 minutes.*

**VERY IMPORTANT INSTRUCTIONS**

- 1. Read through the questions, brainstorm and plan your answers before you finally answer them. This is one of the good ways to manage your time in an exam and to do well.*
- 2. Write clearly, use simple expressions and provide the best answers possible.*
- 3. Write answers that provide additional information. If you just list answers or provide one to three worded answers, your will fail the paper.*
- 4. Do well to explain your answers to help earn full marks. Check your units of measurement, spellings, grammar and read over your work before submitting.*
- 5. Write question numbers boldly, start every new major question (answers) on a new page.*
- 6. Do not rewrite the full question before answering. Only write the question number.*
- 7. Show workings in all instances in section B if the question involves calculations.*

**PART A [30 Marks]**

**Answer two questions only from this part. Question 1 is compulsory and any other one.**

1. a) i. State three proper ways of disposing off home and industrial waste in Ghana. (3 marks)  
ii. Mention three basic characteristics of complaint materials that make them suitable for use.  
b) i. Identify three working properties of resistant materials. (3 marks)  
ii. List three building materials commonly used in Ghana. (3 marks)  
iii. Mention one uses each of the building materials listed in (b)(ii) above. (3 marks)
2. a) A student asks his teacher for definitions of specific terms used in the finishing process. If you're are the teacher, what will you say about the following terms; [3 marks]
  - i. Finishes
  - ii. Finishing
  - iii. Surface preparationb) You are a woodworking instructor, and one of your students asks you to explain the purposes of different types of finishes commonly used in woodworking projects. What three answers will you give? [3 marks]  
c) In the absence of your friend, your teacher explained the following steps involved in the finishing process of a wooden artifact. Explain to your friend, the exact words of the teacher on the steps; [3 marks]
  - i) Sanding
  - ii) Applying the finish
  - iii) Drying and curingd) Mr. Amo is supervising a woodworking class, and one of his students asks about safety precautions to take when applying finishes to their projects. What three answers do you suggest Mr. Amo should give? [3 marks]  
e) You are an artisan leading a workshop on creating handcrafted artifacts, and one of your attendees asks about the significance of finishing in the production process. Explain to the attendee. [3 marks]
3. a) During a project planning meeting, one of your team members asks about the concept and significance of a design brief. Help the member to understand. (3 marks)
  - i. List the steps involved in writing the concept the team member seeks to understand in (a) above. [3 marks]
  - ii. Describe three key elements that should be included in design brief. (3 marks)
  - iii. After completing a design project, one of your team members asks how a design brief can be useful in evaluating the finished product. Write any three answers to the member's question. (3 marks)
  - iv. During a design workshop, one of the participants expresses concerns about the necessity of creating detailed design briefs for their projects and asks about the potential consequences of skipping this step. Give three of the potential consequences. [3 marks]

**PART B – [30 Marks]**

**Answer two questions only from this part. Question 4 is compulsory and any other one.**

4. A cone has 60mm diameter base and the height is 65mm. it is truncated by a plane at 45 degrees to the base plane with this plane meeting the axis of the cone at 30mm below the apex. Draw the;
  19. Plan
  20. Front elevation
  21. Surface development of this truncated cone[15 marks]
5. a) Mention three common techniques used to finish the edges of sewing articles? (3 marks)
  - i. How will you explain the process of hemming a fabric edge to a colleague? [3 marks]
  - ii. Describe how to finish the edges of food particles for presentation. [3 marks]
  - iii. State three tools and materials are required for serging the edges of a fabric. (3 marks)
  - iv. How does finishing the edges of sewing articles improve their durability? (3 marks)
6. a) What are the initial steps in planning to make a sewing artifact? (3 marks)
  - ii. Outline any three tools needed by a seamstress to making artifacts. [3 marks]
  - iii. Describe the process of creating a pattern for a sewing project. [3marks]
  - iv. In selecting a fabric for sewing project, outline three factors that must be considered. (3 marks)
  - v. Explain the importance of creating a mock-up before finalizing a sewing project. (3 marks)

**PAPER 1**  
**OBJECTIVE TEST**  
**40 MARKS**

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.

1. Which material is primarily used for making precise and permanent technical drawings?  
A. Watercolor                      B. Charcoal  
C. Ink                                  D. Chalk
2. What is the function of a set square in technical drawing?  
A. Drawing freehand curves      B. Drawing horizontal lines  
C. Drawing right angles          D. Drawing circles
3. In graphic communication, which tool is used to draw large circles or arcs?  
A. T-square                          B. French curve  
C. Compass                          D. Divider
4. Which of the following is most crucial for adding fine details to a pencil sketch?  
A. Thick pencils                      B. Soft erasers  
C. Sharp pencils                      D. Blunt crayons
5. Which line type in technical drawing is used to show the center of holes or symmetrical objects?  
A. Solid line                          B. Centerline  
C. Dashed line                        D. Phantom line
6. What is a key purpose of a drawing board?  
A. To cut materials  
B. To measure angles  
C. To provide a flat surface for drawing  
D. To store drawing tools
7. In graphic communication, what does hatching typically represent?  
A. Hidden edges                      B. Textures  
C. Shading                              D. Materials
8. Why is tracing paper often used in design?  
A. For making permanent drawings  
B. For transferring designs  
C. For coloring designs  
D. For protecting designs
9. Which type of drawing is typically used to represent three-dimensional objects on a two-dimensional surface?  
A. Orthographic drawing          B. Isometric drawing  
C. Perspective drawing              D. Schematic drawing
10. In culinary arts, what is the primary use of a whisk?  
A. Chopping vegetables          B. Whipping ingredients  
C. Frying food                        D. Measuring liquids
11. Which of the following is a primary consideration when creating a balanced diet plan?  
A. Color of the dishes                B. Nutritional content  
C. Popularity of recipes              D. Number of ingredients
12. Which culinary technique involves cooking food in a sealed bag at a low temperature?  
A. Sous-vide                          B. Grilling  
C. Roasting                            D. Frying
13. What is the main benefit of using non-stick cookware?  
A. Faster cooking time              B. Even heat distribution  
C. Easier food release                D. Increased flavor retention
14. Which of the following is an example of a dry cooking method?  
A. Boiling                              B. Steaming  
C. Poaching                            D. Baking
15. What is the importance of mise en place in cooking?  
A. Improving presentation  
B. Organizing ingredients and tools  
C. Enhancing flavor  
D. Reducing cooking time
16. In the context of entrepreneurship, what is a business plan?  
A. A marketing strategy  
B. A detailed plan outlining business goals and strategies  
C. A financial report  
D. An employee handbook
17. Which of the following is a major advantage of market research for entrepreneurs?  
A. Reducing production costs  
B. Understanding customer needs  
C. Avoiding all risks  
D. Ensuring immediate success
18. What is a common financial challenge faced by new entrepreneurs?  
A. Excessive profit                    B. Limited capital  
C. Overstaffing                        D. Lack of competition
19. Which factor is NOT typically considered in a SWOT analysis?  
A. Strengths                            B. Weaknesses  
C. Opportunities                        D. Historical data
20. In graphic communication, what is the purpose of a storyboard?  
A. Creating final designs  
B. Planning the sequence of a visual project  
C. Storing completed artworks  
D. Analyzing market trends

21. What is the primary use of a lightbox in drawing and design?

- A. Enlarging designs
- B. Tracing designs
- C. Storing designs
- D. Displaying designs

22. Which cooking method involves partially cooking food in boiling water before finishing it in another way?

- A. Braising
- B. Poaching
- C. Blanching
- D. Grilling

23. Which of the following materials is commonly used for prototyping in product design?

- A. Marble
- B. Metal
- C. Cardboard
- D. Glass

24. What is the primary advantage of digital drawing tools over traditional drawing tools?

- A. Lower cost
- B. Easier correction and modification
- C. Better texture
- D. Longer durability

25. In entrepreneurship, what is meant by a "target market"?

- A. The location of the business
- B. The specific group of customers aimed at by a product or service
- C. The overall industry trends
- D. The total number of competitors

26. Which of the following is NOT typically a characteristic of effective teamwork?

- A. Clear communication
- B. Defined roles
- C. Individualism
- D. Collaboration

27. Which method of idea generation encourages spontaneous contributions from team members?

- A. Structured analysis
- B. Brainstorming
- C. Market research
- D. Competitive analysis

28. In graphic design, what does the term "typography" refer to?

- A. Color schemes
- B. Layout designs
- C. The art and technique of arranging type
- D. Image editing

29. Which of the following best describes ergonomic design?

- A. Focusing on aesthetics
- B. Ensuring high cost
- C. Creating products that are comfortable and efficient to use
- D. Prioritizing sustainability

30. In food hygiene, what is the critical temperature range known as the "danger zone" where bacteria rapidly grow?

- A. 0-5°C
- B. 5-60°C
- C. 60-100°C
- D. 100-150°C

31. Which drawing tool is specifically used for creating smooth curves in technical drawings?

- A. Protractor
- B. French curve
- C. Set square
- D. T-square

32. In the context of design, what is a mood board?

- A. A prototype model
- B. A collection of materials and images that inspire the design process
- C. A final draft of a design
- D. A technical drawing tool

33. Which of the following is an example of a renewable material used in sustainable design?

- A. Plastic
- B. Aluminum
- C. Bamboo
- D. Concrete

34. In entrepreneurship, what is a "value proposition"?

- A. A detailed financial plan
- B. The unique value a product or service offers to customers
- C. The long-term goals of the business
- D. The company's mission statement

35. What is the primary use of a grid in graphic design?

- A. To draw freehand sketches
- B. To measure distances accurately
- C. To align and arrange design elements systematically
- D. To shade areas of a design

36. Which of the following is a common characteristic of high-quality customer service?

- A. Delayed responses
- B. Limited product knowledge
- C. Proactive problem-solving
- D. Inconsistent policies

37. What does "al dente" refer to in cooking pasta?

- A. Overcooked pasta
- B. Undercooked pasta
- C. Pasta cooked to be firm to the bite
- D. Pasta with added sauce

38. In the design process, what is the purpose of a "wireframe"?

- A. To create detailed visual designs
- B. To outline the structure and layout of a website or application
- C. To develop marketing strategies
- D. To finalize the color scheme

39. Which business structure involves ownership by two or more individuals who share profits and responsibilities?

- A. Sole proprietorship
- B. Partnership
- C. Corporation
- D. Cooperative

40. In graphic communication, what does CMYK stand for?

- A. Color, Motion, Yellow, Key
- B. Cyan, Magenta, Yellow, Key (Black)
- C. Contrast, Midtones, Yellow, Key
- D. Cyan, Magenta, Yellow, Kernel