



FORM 2

DESIGN & TECHNOLOGY

TIME: 2 hours

Name: _____

Class: _____

----- Note to student: -----
You are required to answer all questions

	Areas corrected					Marks for Written Exam.	Marks for Design Folio	TOTAL	FINAL MARK
	D	RM	E	F	T				
Max. Marks	20	-	-	40	40	100	100	200	%
Student's mark									

FOR TEACHERS' USE ONLY

DISTRIBUTION OF MARKS

Enter student's mark obtained in every area of study in the above table.
D for Design, **F** for Food technology and **T** for Textiles technology

SECTION A: DESIGN

1. Complete the diagram in Figure A by placing the following stages in the proper sequence. One stage has been given.

- Chosen idea
- Design brief
- Making
- Testing and Evaluation
- Initial ideas
- Research
- Planning
- Specifications
- Development

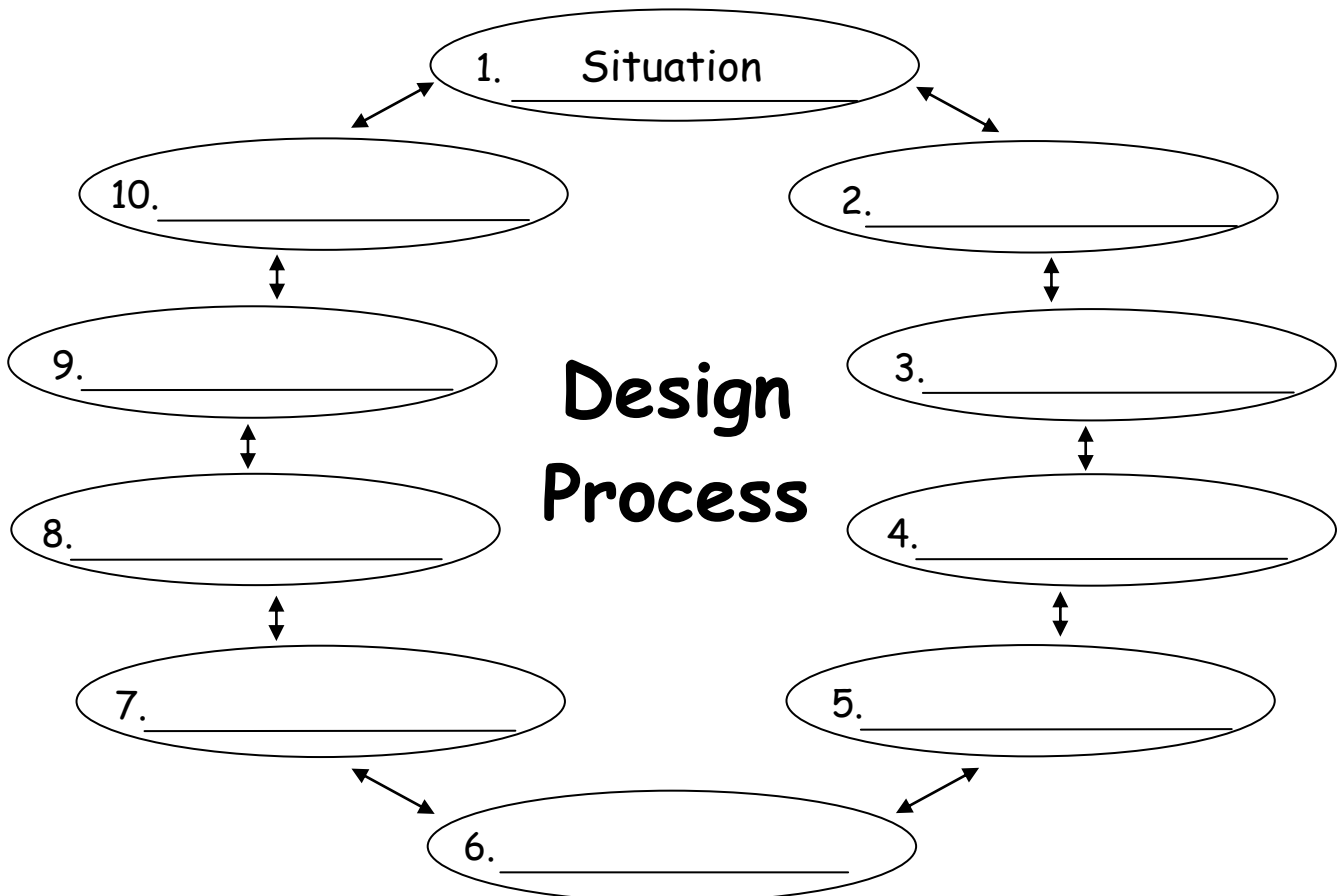


Figure A

$\frac{1}{2}$ mark x 9 = 4 $\frac{1}{2}$ marks

2. Underline the keywords in the following design briefs.

- i) Design and make a healthy snack for 11 to 16 year old students to be sold in a secondary school tuck shop.
- ii) Design and make a mobile pocket to be distributed as a gift.

$\frac{1}{2}$ mark x 5 = 2 $\frac{1}{2}$ marks

3. Choose ONE of the design briefs from question 2 and answer the following questions.

- a. In order to complete your design brief you need to do research. Mention TWO sources from which you can get information.

i. _____

ii. _____

$\frac{1}{2}$ mark x 2 = 1 mark

- b. Mention FOUR specifications that should be considered.

i. _____

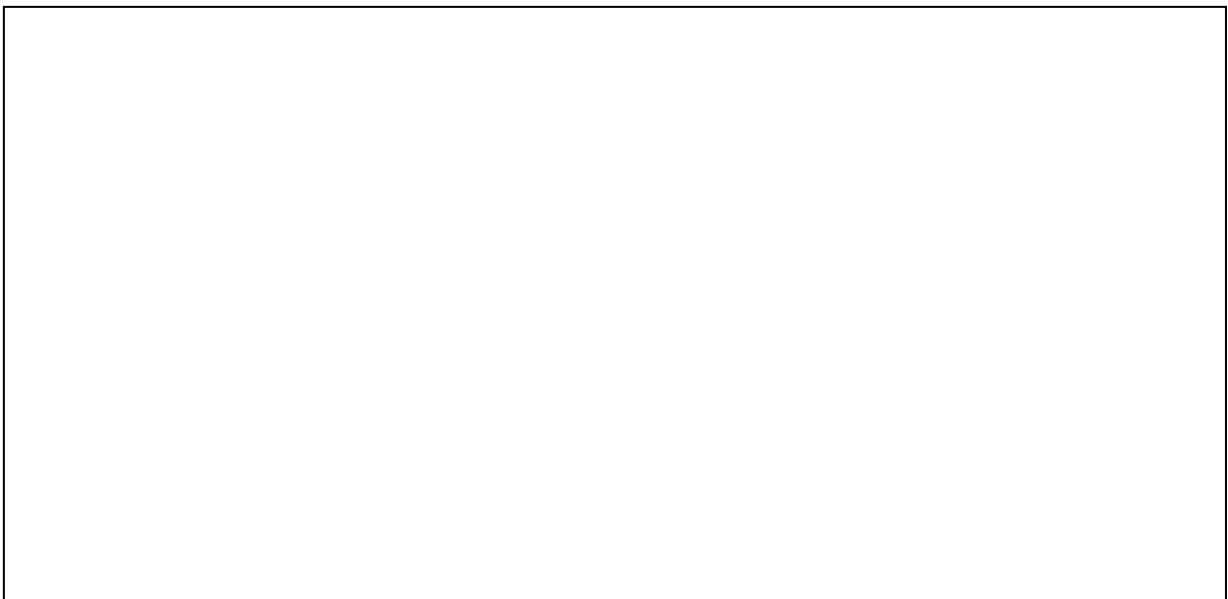
ii. _____

iii. _____

iv. _____

$\frac{1}{2}$ mark x 4 = 2 marks

- c. In the space provided below, draw sketches of one idea for your chosen design brief. Add colour, and notes to your sketch.



5 marks

- d. During the design process you are advised to prepare a minimum of three ideas. Explain how you would choose the best idea.

2 marks

4. A model is sometimes needed during the developmental stage.

a. State TWO reasons why a model is sometimes needed.

- i. _____
- ii. _____

$\frac{1}{2}$ marks x 2 = 1 mark

b. Mention TWO materials that can be used to make a model.

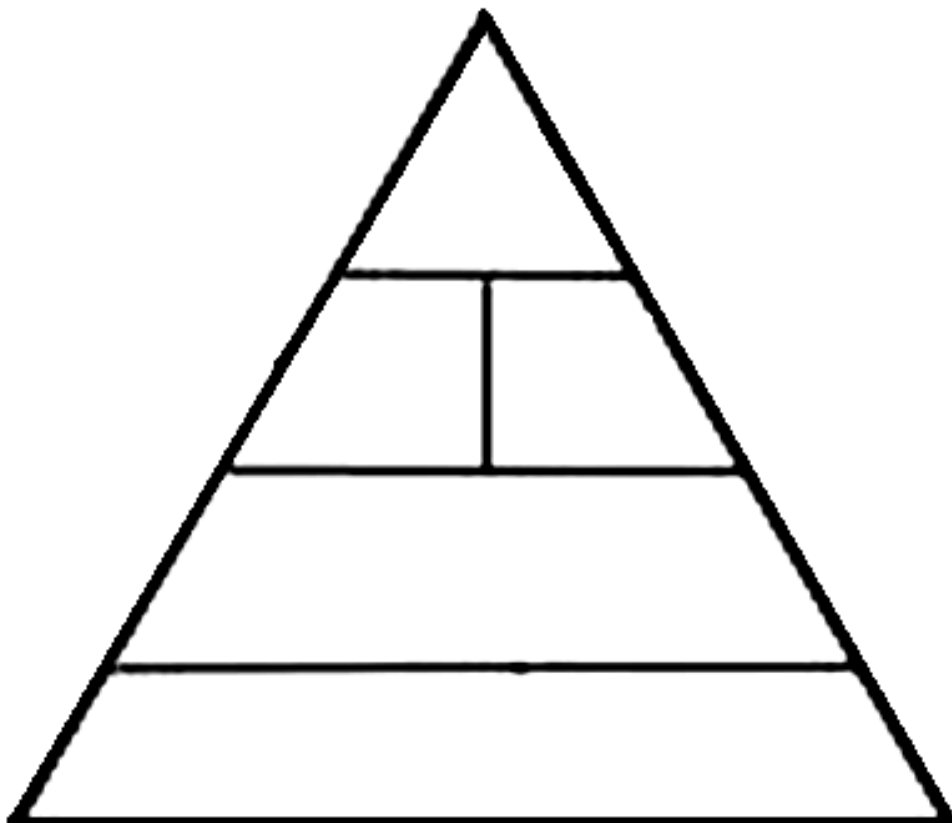
- i. _____
- ii. _____

1 mark x 2 = 2 marks

SECTION B: FOOD

5. Place the following foods in the correct place on the Healthy Food Pyramid.

- Apples ▪ meat ▪ ice-cream ▪ bread ▪ cabbage
- nuts ▪ milk ▪ pasta ▪ butter ▪ yoghurt



1 mark x 10 = 10 marks

6. Certain food can cause problems such as obesity. Suggest TWO healthy packed lunch items you could bring with you to school.

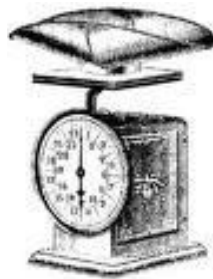
i. _____

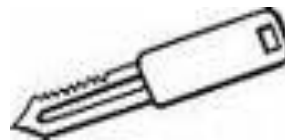
ii. _____

1 mark x 2 = 2 marks

7. Name the following equipment.













1 mark x 6 = 6 marks

8. Match by using numbers the following statements with their appropriate endings.

1	Raw and cooked food should not be stored together because		between 5 ⁰ C to 63 ⁰ C.
2	The danger zone for food is		to maintain its temperature, there must be a circulation of air.
3	Food will be at its best quality until		its 'Use By' date.
4	The fridge should never be overstocked as		bacteria on raw food can be transferred on ready-to-eat food.
5	Never consume a product after		its 'Best Before' date.

1 mark x 5 = 5 marks

9. A meal consisted of: chicken breast, spinach, scrambled egg, boiled potatoes and an orange juice.
Match the food products according to the type of the main nutrient that each one contains

i. Proteins: _____
ii. Carbohydrates: _____

1 mark x 5 = 5 marks

10. Students are encouraged to bring their school lunch in a food plastic container.
Give TWO advantages of using such a container.

i. _____
ii. _____

2 marks x 2 = 4 marks

11. Complete the statements below to follow the dietary guidelines.

a. I can improve my diet by eating more food containing _____.
b. I can improve my diet by eating less food containing _____,
_____ and _____.

1 mark x 4 = 4 marks

12. From the given foods below underline the products which are produced by a biotechnological process.

Wine, baked beans, cheese, green peas, bread, yoghurt, juices.

1 mark x 4 = 4marks

SECTION C: TEXTILES

13. Give the specific names of TWO natural fibres used in textile products.

a) _____ b) _____

1 mark x 2 = 2 marks

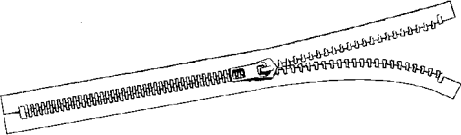
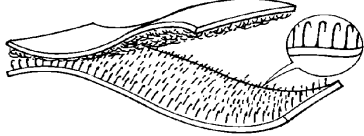
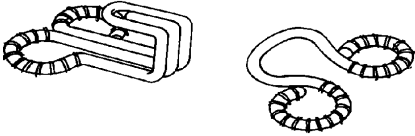
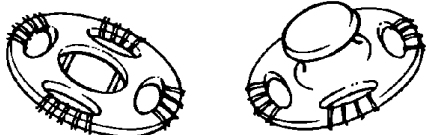
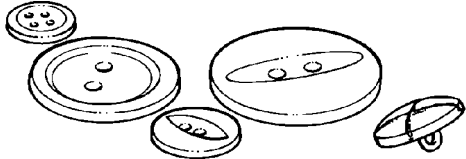
14. Sheep are used to produce wool. Name THREE other animals which are used to produce wool as a textile fibre.

a) _____ b) _____ c) _____

1 mark x 3 = 3 marks

15. Fasteners are often found in textile products. Fill in the table below by using the following terms.

Hooks and eyes, Buttons, Zip, Press studs, Velcro.

FASTENERS	
PICTURE	NAME
	
	
	
	
	

1 mark x 5 = 5 marks

16. Give ONE reason why fabric made from cotton fibres is often used to make jeans.

2 marks

17. Give TWO safety rules that should be followed when using a sewing machine.

a) _____

b) _____

2 marks x 2 = 4 marks

18. Give ONE reason why it may be necessary to neaten the edge of a seam allowance.

2 marks

19. Name TWO non-woven fabrics commonly used in textile products.

a) _____ b) _____

2 marks x 2 = 4 marks

20. Give the name of the hand tool you would use to cut Demin (Jeans).

2 marks

21. List THREE tasks which can be done with an electric iron.

a) _____

b) _____

c) _____

2 marks x 3 = 6 marks

22. List THREE methods of applying colour to fabric/textile products.

a) _____

b) _____

c) _____

2 marks x 3 = 6 marks

23. Explain what is meant by the terms **One-off production** system and **Mass production**.

One-off production: _____

Mass production: _____

2 marks x 2 = 4 marks