FORM 2 DESIGN AND TECHNOLOGY TIME: 2 hours

Name: ________________________________ Class: __________

Note to student: You are required to answer all questions

Areas corrected

<table>
<thead>
<tr>
<th>D</th>
<th>--</th>
<th>--</th>
<th>T</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Marks</td>
<td>20</td>
<td>--</td>
<td>--</td>
<td>40</td>
</tr>
</tbody>
</table>

FOR TEACHERS' USE ONLY

In the above table, enter the marks obtained by student in each area.
D - Design, T - Textiles technology, F - Food technology

DISTRIBUTION OF MARKS

Marks for Written Exam. | Marks for Design Folio | TOTAL | FINAL MARK
---|---|---|---
100 | 100 | 200 | %
1. Rewrite the following stages of the design process in the correct order.

<table>
<thead>
<tr>
<th>Making</th>
<th>Situation</th>
<th>First Ideas</th>
<th>Planning</th>
<th>Testing and Evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development</td>
<td>Design brief</td>
<td>Specifications</td>
<td>Research</td>
<td>Chosen Idea</td>
</tr>
</tbody>
</table>

1 ______________________________
2 ______________________________
3 ______________________________
4 ______________________________
5 ______________________________
6 ______________________________
7 ______________________________
8 ______________________________
9 ______________________________
10 _____________________________

½ mark × 10 = 5 marks

2. Read carefully the design brief given below to answer questions a to e.

**Design brief:**
Design and make a textile pocket for a mobile phone. The pocket should be appealing to teenagers.

da. Write down TWO keywords from the above brief.

___________________________________        ___________________________________

1 mark × 2 = 2 marks

db. List down TWO specifications that you would consider before designing the pocket for the mobile phone.

__________________________________________________________________________
__________________________________________________________________________

1 mark × 2 = 2 marks
c. State TWO methods by which you can communicate your ideas about the mobile phone pocket to other persons.

________________________________________________________________________

1 mark × 2 = 2 marks

d. In the space below sketch ONE idea for the mobile phone pocket. Your sketch must be clear and showing approximate overall sizes, materials, and any proposed finish or decoration. You need to colour your sketch/es.

| 8 marks |

e. Give ONE reason for the choice of material you indicated on your sketch/es for question d.

________________________________________________________________________

1 mark

SECTION B – TEXTILES

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

________________________________________________________________________

2 marks × 2 = 4 marks
4. Give the names and uses of the tools and equipment shown in the following table. One example has been done for you.

<table>
<thead>
<tr>
<th>PICTURE</th>
<th>NAME</th>
<th>USE</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Cutting Shears" /></td>
<td><em>Cutting Shears</em></td>
<td><em>For cutting fabrics</em></td>
</tr>
<tr>
<td><img src="image" alt="Measuring Tape" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Iron" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Sewing Machine" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td><img src="image" alt="Needle" /></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 mark × 8 = 8 marks

5. List TWO properties that cotton and linen fabrics have in common.

____________________________________________________________________________

____________________________________________________________________________

2 marks × 2 = 4 marks

6. Name TWO colouring methods to decorate a cotton t-shirt.

____________________________________________________________________________

____________________________________________________________________________

2 marks × 2 = 4 marks

7. Name THREE textile components normally used as fasteners.

____________________________________________________________________________

____________________________________________________________________________

____________________________________________________________________________

2 marks × 3 = 6 marks
8. State ONE method of neatening an edge on a textile product. Illustrate you answer with a sketch.

**NAME OF METHOD:**

**SKETCH:**

1 mark + 2 marks = 3 marks

9. List TWO safety precautions you would take when using a sewing machine.

____________________________________________________________________________

____________________________________________________________________________

2 marks × 2 = 4 marks

10. Natural fibres originate from various sources. Complete the following table to give the origin of each natural fibre. The first one has been done for you.

<table>
<thead>
<tr>
<th>NATURAL FIBRE</th>
<th>ORIGIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton</td>
<td>vegetable</td>
</tr>
<tr>
<td>Wool</td>
<td></td>
</tr>
<tr>
<td>Silk</td>
<td></td>
</tr>
<tr>
<td>Linen</td>
<td></td>
</tr>
</tbody>
</table>

1 mark × 3 = 3 marks

11. State the process used to convert fibres into yarn.

________________________________

2 marks
12. Mark the construction of a Plain Weave using the checked diagram below.

![Diagram of a Plain Weave]

2 marks

SECTION C – FOOD

13. State the colour of the chopping boards used for the following food items.

<table>
<thead>
<tr>
<th>Raw Meat</th>
<th>Bread</th>
<th>Pears</th>
<th>Raw Fish</th>
</tr>
</thead>
</table>

1 mark × 4 = 4 marks

14. State whether the following statements are TRUE or FALSE.

| a. We can buy food after its **Use By** date. |
| b. Yoghurt is a good source of calcium. |
| c. We can eat food after its **Best Before** date. |
| d. Clean food preparation area frequently to avoid growth of bacteria. |

1 mark × 4 = 4 marks

15. Finish off these recommended dietary guidelines.

| a. Eat less food containing ________________, _______________ and _______________. |
| b. Eat more food containing _________________. |

1 mark × 3 = 3 marks

1 mark
16. Name TWO sources of each nutrient.

Protein _____________________________        _____________________________
Carbohydrates _____________________________        _____________________________
Fat _____________________________        _____________________________

1 mark × 6 = 6 marks

17. Complete the following sentences to show the importance of safety and hygiene in food preparation.

a. Before handling food, __________________ your hands.

b. To __________________ food poisoning, cook food well.

c. __________________ raw meats at the bottom of the fridge to avoid any dripping onto other food.

d. High risk food should be stored below ___________ °C.

e. Warm food should be kept above ___________ °C.

1 mark × 5 = 5 marks

18. State the name of the following equipment:

_________________________________ 

1 mark × 2 = 2 marks

19. Name the equipment used to:

a. grate carrots _____________________________

b. remove the core of an apple _____________________________

c. open a can of baked beans _____________________________

d. peel apples _____________________________

1 mark × 4 = 4 marks
20. Give FOUR safety rules that must be taken to avoid personal injuries in a food lab.

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

1 mark × 4 = 4 marks

21. Underline the correct word from the brackets.

   a. Healthy diets are high in ( starchy / sugary ) foods.

   b. ( Meat / Milk ) is a good source of calcium.

   c. We should eat ( wholemeal bread / burgers ) because this provides us with fibre.

   d. Fruit and vegetables are good sources of ( proteins / fibre ).

   e. ( Vitamins / Fats ) are needed in our diet as these protect us from diseases.

1 mark × 5 = 5 marks

22. Suggest TWO healthier toppings instead of the ones used for this pizza.

   a. Cheddar cheese
      Replaced by:
      ______________________

   b. Salami
      Replaced by:
      ______________________

1 mark × 2 = 2 marks