FORM 2 DESIGN AND TECHNOLOGY TIME: 2 hrs

Name: ____________________________ Class: __________

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Note to student: ---------------------------

You are required to answer all questions

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FOR TEACHERS’ USE ONLY

DISTRIBUTION OF MARKS

<table>
<thead>
<tr>
<th></th>
<th>Marks for Written Exam.</th>
<th>Marks for Design Folio</th>
<th>Marks for Making Skills</th>
<th>TOTAL</th>
<th>FINAL MARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Marks</td>
<td>100</td>
<td>50</td>
<td>50</td>
<td>200</td>
<td>%</td>
</tr>
<tr>
<td>Student’s mark</td>
<td></td>
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<td></td>
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</tbody>
</table>

LEVELS
5 – 6 – 7 – 8
1. SITUATION

The school band needs fund raising. The shortage of funds means that the band can only afford to buy plain white cotton T-shirts for its members to wear while performing. The band would like to make the T-shirt more attractive.

a. Read carefully the situation above and complete the following Design Brief using the given words. T-shirt, fund, make.

“Design and __________ a suitable print/motif to be applied as a logo on a white __________ to be sold for __________ raising.”

1 mark x 3 = 3 marks

b. Complete the diagram below by placing the following stages in the proper sequence.


1 mark x 4 = 4 marks
c. List TWO methods of applying colour to fabrics.

_________________________________  _________________________

1 mark x 2 = 2 marks

d. Suggest ONE method of applying the school logo to a ready-made T-shirt and give a reason for your choice.

__________________________________________________________

2 marks

e. Give TWO specification criteria to be considered for the printing on the T-shirt.

__________________________________________________________  
__________________________________________________________

1 mark x 2 = 2 marks

f. Sketch a labelled idea suitable for the above. You may use colours to enhance your sketch.

6 marks
2. Identify and name the TWO fabric constructions shown in the diagram below.

a. 

![Fabric Diagram]

i. __________________________

ii. _______________________

1 mark x 2 = 2 marks

b. Which of the two fabric constructions is more suitable for the manufacture of T-shirts? Give ONE reason to your answer.

________________________________________________________________________

________________________________________________________________________

3 marks

c. What natural fibre content is more suitable for a T-shirt to absorb body moisture?

________________________________________________________________________

2 marks

d. List TWO fabrics made from each of the fabric construction shown above.

________________________________________________________________________

________________________________________________________________________

1 mark x 2 = 2 marks

e. List TWO properties that should be considered when selecting a fabric.

________________________________________________________________________

________________________________________________________________________

1 mark x 2 = 2 marks
f. State TWO types of test one can apply onto fabrics to help decide your fabric choice.

___________________________________________________________________________

___________________________________________________________________________

1 mark x 2 = 2 marks

3. You have been given the task to cut pieces of fabrics to be used in your wall hanging project.
   a. Which tool would you choose to cut fabrics with?

___________________________________________________________________________

2 marks

b. State ONE safety precaution that should be observed while cutting fabrics.

___________________________________________________________________________

2 marks

4. Pressing is a very important process in the manufacture of a textile product.
   a. State was is meant by the term “Under Pressing”.

___________________________________________________________________________

2 marks

b. State the reason why steam is applied in the pressing process.

___________________________________________________________________________

2 marks

5. Fabrics can be joined together by means of adhesives.
   a. State TWO types of adhesives commonly used on fabrics.

___________________________________________________________________________

___________________________________________________________________________

1 mark x 2 = 2 marks

b. State One safety precaution that should be observed when handling adhesives.

___________________________________________________________________________

2 marks
6. Name the proper tool for the right job.

<table>
<thead>
<tr>
<th>TOOL</th>
<th>JOB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trimming</td>
<td>Scissors/Clippers</td>
</tr>
<tr>
<td>Steam Iron</td>
<td></td>
</tr>
<tr>
<td>Measuring tape</td>
<td></td>
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</tbody>
</table>

2 marks x 3 = 6 marks

SECTION B: FOOD

7. State the origin of the following food items by writing ‘A’ for Animal or ‘P’ for Plant.

Flour:   | Yoghurt: | Sausages: |
Sugar:   | Grapes:  | Cheese:   |
Eggs:    | Juice:   |           |

1 mark x 9 = 9 marks
8. Name TWO traditional Maltese recipes.
   i.  
   ii.  
   $\frac{1}{2}$ mark $\times 2 = 1$ mark

9. You are preparing a fruit salad to be sold in the school tuck shop.

   a. The chopping boards in the Food Lab are colour coded.
      i. Why are colour coded chopping boards used?
         ____________________________________________________________
         ____________________________________________________________
         1 mark
      ii. Which colour coded chopping board is used to prepare fruit?
         ____________________________________________________________
         1 mark

   b. List TWO safety precautions that should be observed to avoid accidents when handling knives.
      i.  
      ii.  
      1 mark $\times 2 = 2$ marks

   c. Fruit contains many vitamins. Name TWO functions of vitamins in the body.
      i.  
      ii.  
      1 mark $\times 2 = 2$ marks
d. List TWO deficiencies of vitamins in the body.

i. __________________________________________________________________________

ii. __________________________________________________________________________

1 mark × 2 = 2 marks

e. State TWO ways how you would design the salad to encourage the students to choose it.

i. __________________________________________________________________________

ii. __________________________________________________________________________

1 mark × 2 = 2 marks

f. The success of these products depends on the students’ choices. State TWO types of factors that may influence students.

i. __________________________________________________________________________

ii. __________________________________________________________________________

1 mark × 2 = 2 marks

g. Some students added yoghurt to the fruit salad, one of the student’s yoghurt had this symbol on its yoghurt.

i. What does this symbol stand for?

______________________________________________________________________________

1 mark

ii. Name a food that this student does not eat.

______________________________________________________________________________

1 mark
10. Write TRUE or FALSE next to the following statements.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>All micro-organisms are harmful.</td>
</tr>
<tr>
<td>2</td>
<td>Moisture and warmth are two conditions that bacteria need to multiply.</td>
</tr>
<tr>
<td>3</td>
<td>Yoghurt helps to increase weight.</td>
</tr>
<tr>
<td>4</td>
<td>When you eat yoghurt regularly, it strengthens your bones.</td>
</tr>
<tr>
<td>5</td>
<td>Yoghurt is a good source of calcium and a high protein food.</td>
</tr>
<tr>
<td>6</td>
<td>Calcium is needed in different amounts throughout life.</td>
</tr>
<tr>
<td>7</td>
<td>Cholesterol levels increase when you eat yoghurt.</td>
</tr>
<tr>
<td>8</td>
<td>Yoghurt is a high risk food.</td>
</tr>
<tr>
<td>9</td>
<td>Constipation increases when you consume yoghurt.</td>
</tr>
<tr>
<td>10</td>
<td>Lack of calcium intake results in weak bones and teeth.</td>
</tr>
</tbody>
</table>

1 mark × 10 = 10 marks

11. a. In which section of the Design Folio do we find the list of equipment and the method to be used to make the product?

____________________________________________________________________________________

1 mark

b. Name the equipments shown below which are used to make yoghurt.

i.________________ ii._______________ iii.__________ iv.______________

v.________________ vi.________________ vii.________________

1 mark × 7 = 7 marks
c. Complete the flow chart below to explain the method used when making yoghurt.

```
START

Remove any______________________________
______________________________

Sanitise the worktop and wear ______________
______________________________

Heat the _____________________________
______________________________

Add the _____________________________

Pour into a __________________________

Leave at room temperature for about 4 hours and put it in the __________________________

FINISH
```

1 mark \( \times 6 = 6 \) marks

d. Name TWO products other than yoghurt that are produced by traditional biotechnology.

i. _____________________________

ii. _____________________________

1 mark \( \times 2 = 2 \) marks
The question should read: In the table below explain the use of each tool.