GCSE Fibres and Fabrics Quiz

1 Put a circle round the odd one out in each of the following groups. Explain why it is the odd one out.

Group 1: Nylon  Silk  Lycra  Polyester
Group 2: Brushed  Crease resistant  Warp  Heat-set
Group 3: Woven  Bonded  Knitted  Staple

2 Are the following statements true or false? Give a reason for your decision.

A  Wool fibres come from a plant.
B  Cotton and linen are not as absorbent as polyester.
C  Yarns are made by twisting fibres together.
D  Knitted fabrics are made by looping yarns together.
E  Satin weaves make very strong fabrics.

3 What do each of these symbols mean?
4. Place the name of each method of fabric construction in the correct box.

**Name of fabric construction:**
- weft knit
- plain weave
- twill weave
- bonded
- warp knit

<table>
<thead>
<tr>
<th>Diagram of fabric construction</th>
<th>Name of fabric construction</th>
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</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Diagram 1" /></td>
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<tr>
<td><img src="image2.png" alt="Diagram 2" /></td>
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<td><img src="image3.png" alt="Diagram 3" /></td>
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<tr>
<td><img src="image4.png" alt="Diagram 4" /></td>
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</tbody>
</table>

5. Give three different reasons for blending fibres to make a fabric.

1. 

2. 

3. 
6 Tick the box next to the correct description of a smart fabric

<table>
<thead>
<tr>
<th>Description</th>
<th>✓</th>
</tr>
</thead>
<tbody>
<tr>
<td>A smart fabric can go back to shape after being stretched.</td>
<td></td>
</tr>
<tr>
<td>A smart fabric is able to react to changes in the environment without human intervention.</td>
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<tr>
<td>A smart fabric is always clean and tidy.</td>
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</tbody>
</table>

7 Give three different ways in which the packaging of textile products can damage the environment.

1

2

3

8 What is the name of the fastening shown in the photographs below?

.................................

9 What is Tencel?
Is it:
- a man-made fibre similar to nylon
- a modern regenerated fibre
- a fibre which has 10 different molecules
- a special finish to make a fabric water-resistant.
10 Name the fibre shown below.

..............................................

11 Why is air important in making fabrics warm to wear? Is it because:
   • It acts as an insulator
   • It stops rainwater getting through the fabric
   • It makes fabrics soft and fluffy.

12 Give three different ways in which air can be trapped in a fabric.

1

2

3

13 Read the following statements about wool.
   A Wool dries quickly.
   B Wool is attacked by moths.
   C Wool is warm to wear.
   D Wool creases easily.

Put a circle round the 2 statements which are true. Is it:
   • A and B
   • B and C
   • B and D
   • C and D.
14  **Read the following statements about cotton.**

A  Cotton is very strong.
B  Cotton is waterproof.
C  Cotton creases easily.
D  Cotton is warm to wear.

**Put a circle round the 2 statements which are true.**

Is it:

- A and B
- C and D
- A and C
- A and D.

15  **What is the name of the decorative technique shown below?**

![Decorative Technique](image)

16  **Viscose is often blended with polyester to make a fabric.**

**Tick the box next to the correct reasons for using viscose in a blend.**

<table>
<thead>
<tr>
<th>Reason</th>
<th>✓</th>
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<tbody>
<tr>
<td>Viscose adds strength to the polyester/viscose blend.</td>
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<tr>
<td>Viscose makes the polyester/viscose blend more absorbent.</td>
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<tr>
<td>Viscose makes the polyester/viscose blend crease-resistant.</td>
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<tr>
<td>Viscose reduces the cost of the polyester/viscose blend.</td>
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</table>

17  **What is a microfibre?**

Is it:

- A fibre which has been made in a microwave oven
- A very fine fibre
- A very short fibre
18. Which of the following fibres can be used for microfibres?
   - Polyester  
   - Linen       
   - Polyamide  
   - Wool

19. What is the difference between a staple fibre and a filament fibre?
   ........................................................................................................................................

20. Underline the name of the fibre which is not a filament fibre.
   - Silk         
   - Polyester   
   - Viscose     
   - Cotton

21. Underline the names of the fibres which are not staple fibres.
   - Wool        
   - Polyamide   
   - CottonLycra 
   - Linen

22. What is the name of the technique shown below?
   .................................................................................................................................

23. Why should a polyester fabric not be ironed with a hot iron? Is it because:
   - It is a waste of electricity
   - The polyester will melt
   - The polyester will catch fire
   - The polyester will lose its colour
24 The fabric shown below is decorated using batik.

What is batik?
Is it:
- A type of embroidery
- A type of appliqué
- A type of dyeing using wax resist
- A type of dyeing using string

25 What is the selvedge of the fabric?
Is it:
- The rough edge where the fabric has been cut
- Fabric left over when products have been cut out
- The profit made by the fabric manufacturer
- The finished off edge of the fabric

26 Match each fastening with the right product.

<table>
<thead>
<tr>
<th>Fastening:</th>
<th>zip</th>
<th>buckle and strap</th>
<th>press studs</th>
<th>button and buttonhole</th>
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</thead>
<tbody>
<tr>
<td>Product</td>
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27 Interfacing is often used in the manufacture of textile products. Tick the boxes next to the correct reasons for using interfacing.

<table>
<thead>
<tr>
<th>Reason for using interfacing</th>
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<tbody>
<tr>
<td>It strengthens the fabric</td>
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<tr>
<td>It makes the fabric waterproof</td>
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<tr>
<td>It stops the fabric from stretching</td>
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<tr>
<td>It gives shape to the fabric</td>
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</table>

28 The diagram below shows a pattern made using appliqué.

How is appliqué done?
Put a tick next to the correct answer.
- One layer of fabric is stitched on top of another
- The pattern is painted on with fabric paint
- The pattern is woven into the fabric
- One layer of fabric is glued down on top of another.

29 Which is the correct order when making fabrics?
Put a tick next to the correct answer.

<table>
<thead>
<tr>
<th>Yarns ➔ Fabrics ➔ Fibres</th>
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<tr>
<td>Fibres ➔ Fabrics ➔ Yarns</td>
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</table>
A manufacturer has the following specification for outdoor tops.

Underline the name of the best fabric from the list below.

- Cotton denim
- Wool twill weave fabric
- Cotton corduroy
- Polyester fleece

The fabric must be:
1. lightweight
2. warm to wear
3. easy to wash
4. hardwearing

So how did you do?
Put your score out of 30 in the box.

/30