

Textiles, Clothing and Fashion

Fibre Classification

Worksheet

Answer **ALL** questions

1. State the main difference between natural and man-made fibres.
.....
.....
(2 marks)

2. Classify the following fibres as either man-made or natural:

- i. Nylon

.....
- ii. Wool

.....
- iii. Cotton

.....
- iv. Silk

.....
- v. Polyester

.....
- vi. Rayon

.....
- vii. Acrylic

.....
- viii. Jute

.....

(8 Marks)

3. State whether the following are **True or False**. If you select false, write the correct statement.

- (i) Fibre is the basic unit of all fabrics.

True

False

.....
- (ii) Filaments are short fibres.

True

False

.....
- (iii) Cotton is a filament fibre

True

False

.....
- (iv) Polyester is a staple fibre.

True

False

.....
- (v) Silk is a natural fibre.

True

False

.....
- (vi) Linen is a man-made fibre

True

False

.....

(10 Marks)

4. State the similarity(ies) and difference(s) between the following fibres:

Fibres	Similarity(ies)	Difference(s)
a) Cotton and Flax (Linen)	- - -	- -
b) Cotton and Wool	- -	- -
c) Wool and Silk	- -	- - - -
d) Cotton and Rayon	-	- - - -
e) Silk and Polyester	-	- -
f) Rayon and Nylon	- -	- -
g) Silk and Rayon	-	- -

(30 marks)

Total 50 marks

Answer Key

1. State the main difference between natural and man-made fibres.

Natural fibres are obtained from nature – plants and animals

Man-made fibres are made by man from chemicals

(1 mark for each difference)

(2 marks)

2. Classify the following fibres as either Man-made or Natural:

(i) Nylon: **Man-made**

(ii) Wool: **Natural**

(iii) Cotton : **Natural**

(iv) Silk **Natural**

(v) Polyester **Man-made**

(vi) Rayon **Man-Made**

(vii) Acrylic **Man-made**

(viii) Jute **Natural**

(1 mark for each correct response)

(8 marks)

3. State whether the following are **True or False**. If you select false, write the correct statement.

(i) Fibre is the basic unit of all fabrics. **True**

(ii) Filaments are short fibres. **False**
Filaments are long continuous strands

(iii) Cotton is a filament fibre **False**
Cotton is a staple or natural fibre

(iv) Polyester is a staple fibre. **False**
Polyester is a filament fibre

(v) Silk is a natural fibre. **True**

(vi) Linen is a man-made fibre **False**
Linen is a Natural or staple fibre

(1 mark for each correct response)

(10 marks)

4. State the similarity(ies) and difference(s) between the following fibres:

Fibres	Similarity(ies)	Difference(s)
a) Cotton and Flax (Linen)	- natural fibres - plant origin - staple fibres	- cotton comes from the seed of the cotton plant - flax comes from the stem of the flax plant.
b) Cotton and Wool	- natural fibres - staple fibres	- cotton is a plant fibre - wool is an animal fibre
c) Wool and Silk	- natural – fibres - animal origin	- wool is a staple fibre - silk is a filament fibre -wool is obtained from the sheep -silk is obtained from the web of the silk worm
d) Cotton and Rayon	- contain cellulose	- cotton is a natural fibre - rayon is a man-made fibre -cotton is a staple fibre -rayon is a filament fibre
e) Silk and Polyester	- filament fibre	- silk is a natural fibre -polyester is a man-made fibre
f) Rayon and Nylon	- man-made fibre - filament fibre	- rayon is a regenerated fibre -nylon is a synthetic fibre
g) Silk and Rayon	- filament fibre	-silk is a natural fibre -rayon is a man-made fibre

(1 mark for each similarity =12 marks)

(1 mark for each difference = 18 marks)

Total 50 marks

46 – 50 Excellent	40 -45 very good	30 – 39 Good
29 and under – Review information and try again		