



GCE A LEVEL MARKING SCHEME

SUMMER 2022

**A LEVEL
DESIGN AND TECHNOLOGY
FASHION AND TEXTILES
1602U30-1**

INTRODUCTION

This marking scheme was used by WJEC for the 2022 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.

GCE A LEVEL DESIGN AND TECHNOLOGY

FASHION AND TEXTILES

SUMMER 2022 MARK SCHEME

Question 1				
Fashion and textile products are manufactured using different scales of production.		AO3	AO4	Mark
(a)	The fancy dress outfit shown below has been manufactured using batch production. Explain why this is the most suitable scale of production for the outfit. <i>Answers that indicate an understanding of batch production for the outfit should be awarded up to 3 marks based on:</i> • Seasonal product limits numbers • Demand will be limited to particular customers • Customer is a child – limited use, will grow out of it • Costumes have limited appeal depending on the design Guidance to markers <i>Incorrect / no answer</i> <i>Brief description of batch production for the outfit for example:</i> The product will only be used at a certain time of the year. <i>More detailed explanation of batch production for the outfit for example:</i> As the product will only be used at a certain time of the year this limits the need for large quantities. <i>A clear and detailed explanation for batch production being used for the outfit for example:</i> Large quantities of products are not needed as there is a limited market for this type of product as it is fancy dress and the costume is for a specific seasonal event.		✓	3
				0
				1
				2
				3

(b) (i)	Cell production was used to make parts of the outfit. Explain what is meant by cell production.		✓	2
	<i>Answers that indicate an understanding of cell production should be awarded up to 2 marks based on:</i> • A small group of operatives working away from the main production run • Cell workers could be working on part of a product, before that part re-joins the main production run • Cells could manufacture the whole product but just in one size for example • Groups of workers who produce components or entire products • Cell production is when the flow of the production line is split into a number of self-contained units/cells • Each cell is responsible for a complete unit of work or part • Cells might be designed for a specific process, part or a complete product Guidance to markers <i>Incorrect/no answer</i> <i>Brief description with some understanding of cell production for example:</i> A small group of workers producing part of a product <i>A more detailed description, with clear understanding of cell production for example:</i> A small group of specialist workers who manufacture part of a product before it re-joins the main production line			0 1 2
(ii)	Describe the advantages to the manufacturer of producing parts of a product in a cell.		✓	3
	<i>Answers that indicate an understanding of the advantages of cell production should be awarded up to 3 marks based on:</i> • A production system that speeds up the process – can increase productivity • Parts of a product that require more processes made by skilled people – does not hold up the main production run – considered more efficient • Cell workers may produce one size or version of a product - efficient in terms of organisation, keeping differences separate • Separating a complex product into sections, manufacturing in different cells is more efficient and saves time/saves on cost • Stability of the team improves communication between the cell members • Processes, defects, scheduling and maintenance can be managed more efficiently and cost effectively • Workers become multi skilled and are therefore more adaptable and flexible • Cell workers may have specialised skills • This form of team working helps ensure worker commitment as each cell is responsible for a complete unit of work providing job enrichment			

	Guidance to markers	
	<i>Incorrect/no answer</i>	0
	<i>Brief description, very little understanding for example:</i> When parts of a product are made in a cell it can speed up manufacturing time and save money	1
	<i>Some detail with some understanding of the advantages of cell production for example:</i> This is a more efficient way of organising a production line as parts of a product that may be complex are made elsewhere; this speeds up the manufacture of a product and increases productivity.	2
	<i>A detailed explanation with clear understanding of the advantages of cell production for example:</i> This is a more efficient way of organising a production line as parts of a product that may be quite complex are made elsewhere; this speeds up the manufacture of a product as complex parts could hold up production. This means an increase in productivity and profits for the manufacturer as more products can be made in a given time.	3
Total		8

Question 2

When a new product such as the men's outdoor jacket shown below is introduced to the market place, research would have been undertaken before its launch.		AO3	AO4	Mark
(a)	For the jacket to be successful it must attract buyers. Outline what the designer would have considered when designing the jacket for the following two factors: <i>Answers that indicate an understanding of function and aesthetics should be awarded up to 4 marks in total (maximum 2 marks per factor) based on:</i> Function: • Winter jacket needs to keep wearer warm – duck down, highly insulative • Part of a layering system of winter wear – needs to be lightweight • Features that will support main function – high neckline, elasticated cuffs, drawstring hemline – keeps cold out • Needs to repel water – keep user dry Aesthetics: • Colour choices need to be appealing to attract customer • Styling is important – slim fitting, neatly finished neckline and cuffs, part of layering system for extreme cold weather • Contrast colour lining would enhance appearance • For active wear – needs to be slim fitting and not bulky • Minimal detailing as it is primarily a functional product Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, a simple fact for example:</i> Choosing a duck down filling for the winter jacket would keep the user very warm allowing the jacket to function. <i>More detailed description with understanding for example:</i> The main function of the jacket is the keep the wearer warm so the duck down filling being highly insulative would keep the very user warm in cold weather particularly when used as part of a layering system.		✓	4
				0
				1
				2

(b)	The manufacturer set the retail price for the jacket at £99.00. Justify the decision for setting a high price for the jacket.		✓	4
	<i>Answers that indicate an understanding of setting a high retail price should be awarded up to 4 marks based on:</i> • Manufacturer would need to cover all overheads including profit • Cost of all raw materials would be factored in • A high-performance jacket like this one would need high performance fabrics which cost more adding to overall costs • Duck down is ethically sourced may command a higher price • Duck down is an expensive commodity but is very efficient as an insulator • The target market for this jacket would have high expectations that the jacket would withstand wear and tear and that it would function as intended; prepared to pay a high price for the best product • The process of using duck down in the filling is a more complex manufacturing process – adds to the overall cost Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, very little understanding for example:</i> The manufacturer would need to cover all the factory costs and overheads. <i>Some detail</i> <i>with some understanding of the setting a retail price for example:</i> The manufacturer would cover all the factory costs and overheads, and the cost of all the raw materials and components. <i>A more detailed explanation with clear understanding of setting a high retail price for example:</i> The jacket price is expensive but the cost of materials for a high performance jacket would be quite expensive for the best quality. Duck down is not a cheap filling but is highly insulative therefore a higher price is justified in this type of jacket. <i>Fully detailed explanation with clear understanding of setting a high retail price for example:</i> The target market for this type of jacket would expect high performance from it and therefore would pay the high price. The manufacturer would have factored this in alongside the cost of materials. Performance fabric commands a higher price especially for the best quality. Duck down is not a cheap filling but is highly insulative therefore a higher price is justified in this type of jacket			0 1 2 3 4
			Total	8

Question 3

Fashion and textile designers often take inspiration from the past or are inspired by developments in technology as shown in the two products below.		AO3	AO4	Mark
(a)	Discuss how fashion history has influenced the design of product A. <i>Answers that indicate an understanding of the historical influence on product A should be awarded up to 4 marks based on:</i> • Retro styling based on the 1960s (or previous decade) • Uncluttered designs - not overly decorated • Bold statement styling indicative of 60s fashion • Black and white/monochrome key feature of 60s styling • Shift style dresses easy to wear, indicated freedom in the 60s, popular styling today, comfort for the wearer • Short mini dress; the mini skirt was a huge statement in the 60s, had a major impact on the fashion world (controversial at the time); still popular today Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, very little understanding for example:</i> It is similar to fashion styling of the 1960s <i>Some detail with some understanding of the historical influence on product A for example:</i> Black and white clothing and dresses in a straight shift style was a popular look back in the 1960s. <i>A more detailed explanation with clear understanding of the historical influence on product A for example:</i> The dress has that retro look that is inspired by the styling of the 1960s. Monochrome, shift style that was and still is easy to wear and the mini length was a statement in itself. <i>Fully detailed explanation with clear understanding of the historical influence on product A, for example:</i> The dress has a retro style that is inspired by the styling of the 1960s. Monochrome or black and white was a popular colour choice – bold; the shift style indicated freedom of movement, easy to wear and the mini length was a statement in itself.		✓	4
				0
				1
				2
				3
				4

(b)	Explain how technology has inspired the design of the concept product B.		✓	4
	<i>Answers that indicate an understanding of how technology inspired concept product B should be awarded up to 4 marks based on:</i> • The development and emergence of new technologies leads to new concepts in clothing products • Micro or Nano technology opens up endless opportunities for innovative new products such as the training/sports/health monitoring vest – reinvention of products • Conductive threads are being refined to allow them to be fully integrated into clothing – virtually unseen as can be fully embedded in the weave or knit • Improving the functionality of products by embedding technologies such as electronics and computing into fabrics – advances in textile material development • Consumer lifestyles – acceptance and thirst for new technology and associated products – inspires designers • Bluetooth technology allows communication with other devices – relays information about performance or health • Nano technology within fabric is sufficiently developed to withstand damage during washing – leads to developments such as this vest Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, very little understanding for example:</i> Technology has led to the development of conductive threads that can be sewn into clothing. <i>Some detail with some understanding of how technology has inspired product B for example:</i> Nano technology is sufficiently developed to allow conductive threads to be sewn into or woven into fabrics for a vest like the one shown. <i>A more detailed explanation with clear understanding of how technology has inspired product B for example:</i> Nano technology is sufficiently developed to allow extremely thin conductive threads to be sewn into or woven into fabrics without altering the appearance of the fabric – virtually unseen. Developments like this allow designers the opportunity to experiment with new applications like wearing a computer as part of your clothing. <i>Fully detailed explanation with clear understanding of how technology has inspired product B, for example:</i> Nano technology is sufficiently developed to allow extremely thin conductive threads to be sewn into or fully embedded into woven or knitted fabrics without altering the appearance of the fabric – virtually unseen. Developments like this allow designers the opportunity to experiment with new applications like wearing a computer as part of your clothing and with Bluetooth technology it can interact with external devices. These conductive threads are also fully washable making the garment practical.			0 1 2 3 4

(c)	Explain how morphological analysis of a textile product supports designers.		✓	4
<i>Answers that indicate an understanding of morphological analysis should be awarded up to 4 marks based on:</i> • This analysis is about exploring all possible solutions to a complex problem. It can be used when exploring new and different ideas • Morphological Analysis provides a structured inventory of possible solutions. Designers can split problems into partial problems and looking at possible options for each part of the problem. In this way, all aspects of a problem are thoroughly investigated • Morphological Analysis a relatively simple technique that produces good, useful results that helps designers • Morphological analysis could be used to track the stages of development of a product over a period of time – what problems were overcome? • As the product evolves it is assumed each version will be an improvement on the last – function is better, styling is improved, better quality fabrics – in what way and how have improvements been achieved? • Developments in technology may be factored in • Designers can study the success or failure of a product – look at which version performed the best and why • Information gathered can be used to inform the next version or a totally new concept product Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, very little understanding for example:</i> A problem is split into sections and each part is examined separately to identify all possible issues. <i>Some detail with some understanding of morphological analysis for example:</i> When a new product is being considered earlier versions can be deconstructed/split up to examine the different features and to identify where there were problems and why, in order to improve the new product. <i>A more detailed explanation with clear understanding of morphological analysis for example:</i> This is about exploring all possible solutions to a problem. A textile product could be examined by deconstructing it and looking at each part or looking at its development over time. Splitting the problems up into sections allows a designer to look at each problem in more detail. <i>Fully detailed explanation with clear understanding of morphological analysis, for example:</i> This is about exploring all possible solutions to a problem. A textile product could be examined by deconstructing it and looking at each part, or looking at its development over time. Splitting the problems up into sections allows a designer to look at each problem in more detail and critically analyse it to find a better solution in order to make a more refined product.				
Total				12

Question 4

Fashion designers have different options to choose from when developing and presenting ideas, two are shown below.		AO3	AO4	Mark
(a)	Describe the benefits to the designer of hand drawing ideas during the early stages of designing. <i>Answers that indicate an understanding of hand drawing ideas should be awarded up to 3 marks based on:</i> • Quick generation of ideas to get initial concepts recorded before idea is forgotten • Ideas can be evaluated quickly and improved/amended/developed • A quick sketch can inspire further ideas or identify issues • Simple sketched ideas can morph into better ideas quickly by changing a few features – do not need sophisticated software to do that • Share initial concepts with others – start discussion on development • This process is instinctive • Promotes ideas and experimentation by designers • Excellent way to quickly explore various concepts • Quick way to create the basic composition of the designer's ideas Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, very little understanding for example:</i> It is a quick and easy way of recording some initial ideas <i>Some detail with some understanding of hand drawn ideas for example:</i> It is a useful method of recording some initial ideas before they are forgotten. It is also useful to go back to these ideas later in development. <i>Detailed explanation with clear understanding of hand drawing ideas, for example:</i> A quick method of recording all initial ideas. These ideas can often inspire other ideas when they are seen on paper and morph into more refined designs or shared with others. It is important that any ideas are recorded and not dismissed or forgotten, quick sketches can be revisited at a later date.		✓	3
				1
				2
				3

(b)	Discuss the advantages to the designer of presenting ideas to clients through a variety of CAD modelling techniques.		✓	6								
<i>Answers that indicate an understanding of CAD modelling should be awarded up to 6 marks based on:</i> • A more professional method of presenting ideas • Changes can be made easily without starting from the beginning • Variations in design options can be presented more easily – colours, patterns, style details etc • Alterations to silhouettes can be done immediately – following discussion with clients • Digital printing can be transferred from computer to a sample print run immediately with the potential for further development • Ideas can be presented in 3D format to get a better understanding of a concept • 3D visualisations can be viewed from different angles • Virtual catwalks can be created to show a collection • Fabric can be simulated to show how it might drape in reality • Printed or textured fabric can also be visualised on screen before the product is actually made • As products do not have to be made this saves time and expense • Does not use up resources – environmental issues <i>Accept other factually correct answers</i> <i>Do not award any markers for unqualified assertions such as faster, easier quicker</i> Guidance to markers <table><tr><td> • Incorrect/no answer </td><td>0</td></tr><tr><td> • Candidate has simplistic knowledge. • The use of terminology and technical language is basic. • Brief description of CAD modelling – limited understanding. </td><td>1-2</td></tr><tr><td> • The candidate has some understanding of the issues associated with the question. • The use of terminology and technical language is reasonably accurate. • More detailed description of some appropriate CAD modelling techniques; reasonable understanding. </td><td>3-4</td></tr><tr><td> • The candidate demonstrates a clear understanding of the issues associated with the question. • Uses correct terminology and technical language. • Detailed and clear understanding of a wide range of appropriate CAD modelling techniques. </td><td>5-6</td></tr></table>					• Incorrect/no answer	0	• Candidate has simplistic knowledge. • The use of terminology and technical language is basic. • Brief description of CAD modelling – limited understanding.	1-2	• The candidate has some understanding of the issues associated with the question. • The use of terminology and technical language is reasonably accurate. • More detailed description of some appropriate CAD modelling techniques; reasonable understanding.	3-4	• The candidate demonstrates a clear understanding of the issues associated with the question. • Uses correct terminology and technical language. • Detailed and clear understanding of a wide range of appropriate CAD modelling techniques.	5-6
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(c)	Outline the importance of testing and modelling ideas when developing the dimensions of a fashion or textile product.		✓	3
	Answers that indicate an understanding of physically testing and modelling should be awarded up to 3 marks based on: • The size of a product is best viewed in reality • Ergonomic factors should be tested by a user to judge suitability and adjusted accordingly – accept specific examples related to this • Anthropometric data related to fit in clothing can only be done accurately by physically fitting it on a person • Proportion particularly on clothing is best viewed in reality to ensure it is right • By conducting a wearer trial as in clothing, you get a better understanding about size and where adjustments need to be made to improve the fit. Accept other factually correct examples Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, very little understanding for example:</i> By physically fitting a garment on a person, you understand more about the size and dimensions <i>Some detail with some understanding of physical modelling for example:</i> To get the dimensions of a product correct it has to be made and tested with the users. In clothing the products have to fit a person. <i>Detailed explanation with clear understanding of physical modelling, for example:</i> To get the dimensions of a product correct it has to be made and tested with the users. In clothing, the products have to fit a person. The only way of doing this accurately is to make and wear the product so that dimensions and sizes can be adjusted accordingly.			0 1 2 3
		Total		12

Question 5

Soy protein fibre (SPF) for use in textile fabric is derived from the hulls of soy beans shown below.		AO3	AO4	Mark
(a)	Soy fabric is often referred to as ‘vegetable cashmere’ or ‘soy silk’. Describe the properties of soy fabric to justify this label.		✓	4
	<i>Answers that indicate an understanding of soy fibre when compared to cashmere or silk should be awarded up to 4 marks based on:</i> • Soft, smooth, silky and lightweight • Naturally luxurious, with good draping qualities • Naturally lustrous • Absorbent like silk and cashmere • Cool to wear like silk • Biodegradable as both cashmere and silk are Guidance to markers <i>Incorrect / no answer</i> <i>Brief description, very little detail for example:</i> The soy fibre is smooth and silky similar to silk. <i>Some detail with some understanding related to soy fibre for example:</i> Soy fibre is naturally smooth, silky and lustrous just like silk and cashmere and drapes in a similar way too. <i>A more detailed level of understanding related to soy fibre for example:</i> Soy has similar properties to both silk and cashmere. Soy fibre is naturally lustrous, silky and smooth, and is also absorbent like silk and cashmere. When made into fabric it drapes well too. <i>Full and detailed knowledge and explanation related to soy fibre for example:</i> Soy has similar properties to both silk and cashmere. Soy fibre is naturally lustrous, it is silky and smooth, and is also absorbent like silk and cashmere and is also cool to wear as silk is. When made into fabric it drapes well and handles like silk and cashmere earning the label vegetable cashmere and soy silk.			0 1 2 3 4

(b)	Explain why clothing made from soy fabric would suit someone with a sensitive skin condition.		✓	4
<i>Answers that indicate an understanding of using soy fibre for sensitive skin should be awarded up to 4 marks based on:</i>				
• Soy is a vegetable fibre that contains several types of amino acids • Amino acids aid in bio-chemistry and are naturally absorbed through the skin • Comfortable next to skin - cool and comfortable in hot weather • Absorbent and wicks away moisture - as allows perspiration to evaporate • Anti-bacterial • Resistant at blocking out harmful UV rays – protection from the sun				
Guidance to markers				
<i>Incorrect/no answer</i>				
0				
<i>Brief description, very little detail for example:</i>				
Soy is a vegetable fibre that contains helpful amino acids.				
1				
<i>Some detail with some understanding related to using soy fibre for sensitive skin for example:</i>				
Soy is said to have health benefits as the amino acids it contains have soothing qualities that can be absorbed through the skin.				
2				
<i>A more detailed level of understanding related to using soy fibre for sensitive skin for example:</i>				
Soy fibre has excellent health benefits as it contains many different amino acids that can be absorbed through the skin when the fibre is worn. This would help someone who suffers from sensitive skin conditions and would help with a healing process.				
3				
<i>Full and detailed knowledge and explanation related to using soy fibre for sensitive skin for example:</i>				
Soy fibre has excellent health benefits as it contains many different amino acids that can be absorbed through the skin when the fibre is worn. This would help someone who suffers from sensitive skin and would aid the healing process. Soy is also absorbent and wicks away moisture very well, this would also benefit someone with sensitive skin keeping them cool and dry.				
4				
Total				8

Question 6

Finishes are applied to textile fabrics for a number of reasons.		AO3	AO4	Mark
(a)	Name the finish that has been applied to the fabric for the handbag below and explain the reasons for the finish. <i>Answers that indicate an understanding of an appropriate finish and its purpose should be awarded up to 4 marks based on:</i> • A PVC coating has been applied (sheen indicates this) (accept PU coating) • The finish makes the fabric water repellent - functionality • It improves the appearance – aesthetically pleasing • The fabric is stronger as a result and will withstand wear and tear • Accept laminated finish Guidance to markers <i>Incorrect/no answer</i> <i>Brief description, very little detail for example:</i> The coating is PVC <i>Some detail with some understanding related to a suitable finish for example:</i> The coating is PVC and makes the fabric water repellent <i>A more detailed level of understanding related to a suitable finish for example:</i> The coating on the fabric for the handbag is PVC. This coating makes the fabric water repellent so the contents will be protected in the rain. This improves the handbags functionality. <i>Full and detailed knowledge and explanation related to a suitable finish for example:</i> The coating on the fabric for the handbag is PVC. This coating makes the fabric water repellent so the contents of the bag will be protected in the rain. The finish also adds strength to the fabric. Combining both aspects improves the functionality of the handbag. Award a maximum of 3 marks for an answer that does not name the finish but fully explains the reasons		✓	4
				0
				1
				2
				3
				4

(b)	Describe how a brushed finish is applied to textile fabric and give reasons for applying this finish to fabric when used for clothing.		✓	4
	<i>Answers that indicate an understanding of brushing as a finish should be awarded up to 4 marks based on:</i> • <u>Process of brushing</u>: fabric is passed through a series of rollers which have metal spikes attached that gently tease the fibres on the fabric creating a raised brushed effect • The additional surface area created by brushing allows more air to be trapped in between the fibres • The trapped air creates a better level of insulation as warm air (from a body) cannot escape • The fluffy surface is also softer next to the skin more comfortable to wear Guidance to markers <i>Incorrect/no answer</i> <i>Brief description, very little detail for example:</i> The brushed surface area makes the fabric warmer to wear or the fabric is passed through rollers with spikes which fluffs up the fabric <i>Some detail with some understanding related to brushing as a finish in clothing for example:</i> The fabric is passed through rollers with spikes which fluffs up the fabric creating a brushed surface area which makes the fabric warmer to wear <i>A more detailed level of understanding related to brushing as a finish in clothing for example:</i> The fabric is passed through a series of rollers with metal spikes which gently tease the fibres on the fabric creating a brushed surface area which traps warm air making the fabric warmer to wear. <i>Full and detailed knowledge and explanation related to brushing as a finish in clothing for example:</i> The fabric is passed through a series of rollers with metal spikes which gently tease the fibres on the fabric creating a brushed surface area. Warm air from the body is trapped in the air pockets created by brushing. This makes the fabric used in clothing warmer to wear.			0 1 2 3 4
			Total	8

Question 7

The sketch below shows a prototype fitted shirt with a shawl collar. The designer intends to cut all the templates out following the straight of grain.		AO3	AO4	Mark
(a)	Explain the term 'straight of grain'. <i>Answers that indicate an understanding of the term straight grain should be awarded up to 2 marks based on:</i> All template pieces should have a double ended arrow on them; this indicates an instruction to lay the templates on the straight of grain. This arrow should be placed parallel to the edge of the fabric or selvedge edge or in line with the warp yarns which is the strength of the fabric and the straight of grain. Guidance to markers <i>Incorrect/no answer</i> <i>Brief description, a simple fact for example:</i> The double ended arrow has to run parallel the edge of the fabric. <i>More detailed description with understanding for example:</i> The double ended arrow found on all templates has to be placed parallel to the selvedge edge of the fabric or in line with the warp yarns which is the straight of grain.		✓	2
				0
				1
				2

(b)	Explain what difference it would make to the fitted top if the templates were cut on the bias instead of the straight of grain.		✓	4
<i>Answers that indicate an understanding of bias cutting against straight of grain should be awarded up to 4 marks based on:</i>				
• Straight of grain is the strength of the fabric; quite rigid in most fabrics • Pieces cut along the straight grain will retain their shape and add structure to a product; little stretch or movement • Bias is at a 45° angle to the selvedge edge or warp yarns; more movement is found along this line • As there is some stretch along the bias, clothing can be fitted much more closely to the body; can add to the comfort of a garment. • Bias cut fabric drapes better too particularly in clothing giving a more luxurious look • Bias cutting is difficult to handle in some fabric and can stretch and distort				
Guidance to markers				
<i>Incorrect/no answer</i>				
				0
<i>Brief description of bias and straight of grain, little detail for example:</i>				
The bias has more 'give' in it so it would fit better.				
				1
<i>Some detail with some understanding of bias and straight of grain for example:</i>				
The bias has more 'give' in it so it would fit better than a garment cut on the straight grain which is more rigid.				
				2
<i>A more detailed level of understanding of bias and straight for example:</i>				
A bias cut top can be fitted much more closely to the body because the bias has more stretch in it because of the way it is cut – at a 45° angle to the straight grain which is more stable and rigid.				
				3
<i>Full and detailed understanding of the differences between bias and straight of grain for example:</i>				
A bias cut top can be fitted much more closely to the body because the bias has more stretch in it because of the way it is cut – at a 45° angle to the straight grain. Pieces that are cut on the bias can be fitted better and will also drape better. Clothing cut along the straight of grain are less fluid.				
				4

(c)	Using notes and sketches, explain how you would construct the shawl collar. (Do not refer to attaching the collar to the shirt)		✓	6												
Answers that indicate an understanding of the construction of the collar should be awarded up to 6 marks based on: • After cutting out all 4 pieces (two pairs), use interfacing to reinforce the underside pieces of the collar (can refer to iron on or sewn in); may also refer to appropriate weight for this. • The CB seam on each corresponding pair needs to be joined (no need for neatenng). Press seams open. • With right sides facing each other lay the two (now joined) pieces on top of each other - the length of the collar. Pin to hold before stitching. • Using a 1.5cm seam allowance, stitch the outer and longer curved edge of the collar. • Trim back seam allowance to remove bulk; snips should be made on the most curved parts along the seam allowance. This allows the turned collar to lie flat. • Turn the collar the right way round. Press the outer edge to get a smooth defined line. Guidance to markers <table><tr><td> • Incorrect/no answer </td><td>0</td></tr><tr><td> • Candidate has a simplistic knowledge. • The use of terminology and technical language is basic. • Simple diagram, very little detail or explanation. </td><td>1-2</td></tr><tr><td> • Candidate has some basic understanding of the issues associated with the question. • The use of terminology and technical language is variable. • Some detail in diagram(s) with some understanding of the process of constructing the collar. </td><td>3</td></tr><tr><td> • The candidate has some understanding of the issues associated with the question. • The use of terminology and technical language is reasonably accurate, some logic in the sequence. • More detailed level of understanding shown in diagrams with some understanding of the process of constructing the collar. </td><td>4</td></tr><tr><td> • The candidate demonstrates a clear understanding of the issues associated with the question. • The use of terminology and technical language is mostly accurate with evidence of a logical sequence for manufacture. • Detailed explanation and understanding evident in diagrams with clear knowledge of the process of constructing the collar. </td><td>5</td></tr><tr><td> • The candidate demonstrates a very clear understanding of the issues associated with the question. • Uses correct terminology and technical language. • Full and detailed knowledge and understanding evident in diagrams and notes which fully describe a logical and appropriate sequence to construct the collar. </td><td>6</td></tr></table>					• Incorrect/no answer	0	• Candidate has a simplistic knowledge. • The use of terminology and technical language is basic. • Simple diagram, very little detail or explanation.	1-2	• Candidate has some basic understanding of the issues associated with the question. • The use of terminology and technical language is variable. • Some detail in diagram(s) with some understanding of the process of constructing the collar.	3	• The candidate has some understanding of the issues associated with the question. • The use of terminology and technical language is reasonably accurate, some logic in the sequence. • More detailed level of understanding shown in diagrams with some understanding of the process of constructing the collar.	4	• The candidate demonstrates a clear understanding of the issues associated with the question. • The use of terminology and technical language is mostly accurate with evidence of a logical sequence for manufacture. • Detailed explanation and understanding evident in diagrams with clear knowledge of the process of constructing the collar.	5	• The candidate demonstrates a very clear understanding of the issues associated with the question. • Uses correct terminology and technical language. • Full and detailed knowledge and understanding evident in diagrams and notes which fully describe a logical and appropriate sequence to construct the collar.	6
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Total			12													

Question 8

Fashion designers usually produce two collections a year: spring/summer and autumn/winter.		AO3	AO4	Mark
(a)	Explain why a designer would rely on fashion forecasters when developing new collections.		✓	4
<i>Answers that indicate an understanding of fashion forecaster should be awarded up to 4 marks based on:</i> • Fashion forecasters pick up on upcoming trends years in advance of them becoming popular • Trends can be seen for example in colour, prints, silhouettes, form, fabrics... • Forecasters create image boards that depict concepts rather than defined designs • Most designers refer to these to ensure their design thinking will be on trend at the right moment in terms of the 'look.' • If a designer produces something entirely different from everyone else the collection is in danger of being rejected – designers don't want that. • Most high street fashion is modified from catwalk fashion, no retailer will buy clothing that does not fit in with current trends – it may not sell. Guidance to markers <i>Incorrect / no answer</i> <i>Brief description of fashion forecasting, basic level of understanding for example:</i> Fashion forecasters predict future trends. <i>Some detail in description with some understanding of fashion forecasting, for example:</i> Designers rely on forecasters to inform them of potential future trends that can be incorporated into their collections. <i>A more detailed level of understanding of fashion forecasting for example:</i> Designers rely on forecasters to inform them of potential future trends that can be incorporated into their collections. This gives designers some reassurance that their collections will be well received and be on trend along with other designers collections. <i>Full and detailed understanding of fashion forecasting for example:</i> Designers rely on forecasters to inform them of potential future trends that can be incorporated into their collections. Forecasters predict what will be popular at a given time and work years in advance of anything appearing on the high street. As designers also work a season or two in advance of showing their collections they need reassurance that their collections will be well received and be on trend along with other designers collections.				0
				1
				2
				3
				4

(b)	All fashionable clothing follows a critical path from design through manufacture to ensure it is delivered to retail outlets at a set time. Describe what a critical path would include and explain how it supports manufacturers.		✓	8
<i>Answers that have fully described a critical path and its importance should be awarded up to 8 marks based on:</i> • A critical path is an outline plan of the different stages needed to be met in the development and manufacture to point of sale of a product • All parts of the production system need to adhere to deadlines so that everything is in place as and when needed • Failure to meet deadlines can halt production and cause financial issues for the manufacturer • Setting out a timeline for stages in this process, manufacturers are reassured they can deliver products to store at the stated time • Failure to deliver goods can mean loss of sales with consequences • Orders for products are placed in advance of them being in store, working back from delivery date a timeline is calculated • Designers and technicians work to get approval for products so sizes, fit etc are finalised. Candidates might refer to the process of green seals etc. stages of approval for products before an order is finally placed • Wearer user trials take place as well as testing fabrics and component parts. Substitute items may need to be sourced if any fail following testing • Purchasing have to source/order in fabrics and components in time for production to begin – no fabric no production line! • Factory production lines have to be in place for production to start – this might mean new/altering machinery • Workforce may need training in new processes • Discussions with factory managers might take place so the product requirements are fully understood • Lay planning needs to be factored in • Actual manufacturing time needed and finishes of products • Finished goods sent to warehouse for delivery to store <i>Accept other factually correct points</i> Guidance to markers Incorrect/no answer 0 Brief description with little detail in the response: brief knowledge of a critical path. Little reference to the manufacturer. Basic level of understanding. 1-2 Basic description with some detail in the response: some knowledge of a critical path; some knowledge relating to supporting the manufacturer. Some evidence of knowledge and understanding. 3-4 More detailed description, with clear evidence of knowledge and understanding in the response: knowledge of the purpose of a critical path and what it entails; clear understanding of how it supports the manufacturer. 5-6 Full and detailed description, with clear and detailed evidence of knowledge and understanding in the response: clear knowledge of issues related to a critical path and what it entails; full and detailed understanding of its importance to the manufacturer. 7-8				
Total				12

Question 9

Fashion and textile products are constructed through the use of seams and other shaping techniques to give them form.		AO3	AO4	Mark
	Evaluate the use of princess line seams and darts in giving form and functionality to fashion and textile products.	✓		8
	Candidates should demonstrate knowledge and understanding and apply it to <i>designing and making principles</i> to be awarded up to 8 marks based on: • <u>Darts</u>: triangular pieces pinched and sewn out of fabric to create shape; takes away excess fabric to create a better fit; used mostly on the bust line, hips and waistline in clothing but can also be seen near elbows or knees; anywhere that requires better fit or to give shape. Same reasons apply on other textile products • <u>Princess line seams</u>: shaped seams that give a more flattering fit which follows the contours of the body; princess line seams can go from the shoulder, over the bust line, into the waist and out over the hips towards the hemline. Variations exist but the principles are the same • Both techniques take away excess fabric and add shape (form) • Clothing can be fitted to the body much better through these shaping techniques – improvement in form and function • Both techniques allow for a smoother more flattering silhouette (form) • A wide range of clothing can be styled through variations in these techniques • Darts can be used to shape other textile products such as cases and bags (function) • Clothing in particular functions better if the fit is right • Products such as bags may also function better if the shape is right to hold the proposed contents (form)			

	Guidance to markers		
	Incorrect/no answer	0	
	- Candidate has a simplistic knowledge; basic. - The use of terminology and technical language is basic. - Brief description of the impact styling with princess line seams and darts has on fashion products; little understanding evident. - Little evidence of appraisal.	1-2	
	- Candidate has some basic understanding of the issues associated with the question. - The use of terminology and technical language is variable. - Some detail in the descriptions with some understanding of princess line seams and darts used to shape textile products. - Some evidence of appraisal.	3-4	
	- The candidate has clear understanding of the issues associated with the question. - The use of terminology and technical language is mostly accurate. - More detailed description with understanding of the use of princess line seams and darts in the styling of fashion and textile products. - Clear evidence of appraisal.	5-6	
	- The candidate demonstrates very clear understanding of the issues associated with the question. - Uses correct terminology and technical language. - Full and detailed description and understanding of how darts and princess line seams are used to shape fashion and textile products. - Detailed evidence of appraisal.	7-8	
Total			8

Question 10

The fashion and textile industry is being scrutinised for the massive amounts of textile waste and pollution produced.	AO3	AO4	Mark
Analyse what designers and manufacturers could do to reduce overall waste and pollution levels and the impact this would have on the environment.	✓		12
Candidates should demonstrate knowledge and understanding and apply it to <i>designing and making principles</i> to be awarded up to 12 marks based on: <u>Designers:</u> • When developing a new product make effective use of as much fabric in the lay plan; adjust a style to maximise use of fabric • Look at a use for the fabric that is cut to waste from a lay plan • Consider using recycled fabric as in reprocessed from scrap • Reuse materials and components where it is viable to do so • Upcycle fabrics/old garments into new products • Use organic materials • Source fabrics from ethical traders • Design products that can be repaired and not thrown away • Break the chain for fast fashion • Chose biodegradable fabrics • Reference to the circular economy <u>Manufacturers:</u> • Use renewable energy to power factories – green houses gases from non-renewables • Investigate cleaner process to dye and finish fabrics – technology is leading the way – use less water • Contaminated water from various processes finds its way into water supplies – there are alternative methods of dyeing fabric that do not require as much water • High levels of energy and chemicals are used in the extraction of and processing of synthetic fibres; these processes also produce contaminated waste – find alternative methods • Reuse waste fabric from lay plans – reprocess it into new fabric that has another purpose • Reduce transportation of resources and finished products, manufacture closer to markets if possible – reduce carbon footprint • Recycle synthetic fibres • Excess packaging of finished textile products is unnecessary – most of this is plastic <u>Impact on environment:</u> • Less waste going into landfill better for ecological footprint • Less pollution from manufacturing and cleaner air and water supplies; better for biodiversity • Less impact on the ozone layer from CO₂ emissions • Less of a drain on non-renewable resources <i>Accept other viable and factually correct suggestions.</i>			

Guidance to markers		
Incorrect / no answer	0	
- Limited understanding and application of knowledge and understanding of the impact cleaner practices related to waste and pollution from the textile industry would have on the environment. - Limited understanding and application of knowledge and understanding of designing and making principles to fashion design /manufacturing industry. - There is limited evidence of relevant examples. - Quality of Written Communication is limited, presenting material with limited coherence, many errors of grammar, punctuation and spelling. Little evidence of reasoning	1-3	
- Generally good understanding and application of knowledge and understanding of the impact cleaner practices related to waste and pollution from the textile industry would have on the environment. - Generally good understanding and application of knowledge and understanding of designing and making principles to fashion design/manufacturing. - There is a line of reasoning which is generally coherent and relevant. - Quality of Written Communication is basic, presenting occasional appropriate material with some coherence, some errors of grammar, punctuation and spelling	4-6	
- Very good understanding and application of knowledge and understanding the impact cleaner practices related to waste and pollution from the textile industry would have on the environment. - Very good understanding and application of knowledge and understanding of fashion designing and making principles to fashion design/manufacturing. - There is a sustained line of reasoning which is generally coherent, relevant and substantiated. - Quality of Written Communication is good, presenting mainly appropriate material in a coherent manner, few errors of grammar, punctuation and spelling.	7-9	
- Excellent understanding and application of knowledge and understanding of the impact cleaner practices related to waste and pollution from the textile industry would have on the environment. - Excellent understanding and application of knowledge and understanding of designing and making principles to fashion design/ manufacturing. - There is a sustained line of reasoning which is coherent, relevant and substantiated. - Quality of Written Communication is excellent, presenting wholly appropriate material in a coherent and logical manner, hardly any errors of grammar, punctuation and spelling.	10-12	
Total		12