

# **GCSE**

# **Design & Technology (Product Design)**

General Certificate of Secondary Education GCSE J901

General Certificate of Secondary Education (Short Course) GCSE J900

# **Mark Scheme for the Components**

**June 2008** 

J900/J901/MS/R/08

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All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

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Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annersley NOTTINGHAM NG15 0DL

Telephone: 0870 870 6622 Facsimile: 01223 552610

E-mail: publications@ocr.org.uk

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## General Certificate of Secondary Education (Short Course) Product Design (J900)

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## Mark Scheme B802 Designing and Making Innovation Challenge

Development of Design	Initial Thoughts	Initial thoughts are creative showing unexpected and/or challenging ways of thinking	4
Evolution through making			
22 Marks	Brief	Final design brief has scope for creativity	2
	Use/ clients/ users	User requirements are positively reflected within design work	2
	Specification	Specification is detailed key features of the product are identified.	3
	Ideas	Ideas are innovative and creatively sustained Ideas fully explained showing details of construction/materials	6
	Supplementary Information	Supplementary information fully incorporated into design work Innovation and creativity demonstrated	5

Communicating information through sketches, writing and photographs		Sketches/images are clear, confident, incisive and to the point	4
10 marks	Quality of Communication skills	Written communication is of a high level, clear and succinct	4
		Extensive use of innovative and creative communication techniques	2
Materials, Components, Processes,	Material Selection	Considered choice of materials and components	2
Techniques, and Industrial practice	Use of Material	Creative use of Materials	4
12 Marks			
	Making Skills	Model(s) complete to a high standard	6
		Making skills demonstrate a range of techniques/ complexity	
Analysis of ideas, models and prototypes	Analysis and Evaluation	Detailed analysis and evaluation with justification. Suggested Improvements/Use of technical terminology	4

12 Marks	Peer Evaluation	Clear plan for reflect and record. Records peer feedback and possible modifications	2
	Development of ideas	Justifies rejection of ideas in favour of ones that are worthy of further development  Fully develops ideas. No outstanding design issues	6
Reflection 4 Marks	Reflection	Quality analysis/creative design improvements suggested	4

# **Mark Scheme B804 Designing Influences**

Exp	ected Answer	Mark	Additional information
1 (a)	Lightweight, modern looking, attractive (good looking), easy to use (ergonomics), multi- function, e.g. camera, music player, emailing, internet connection, calculator. screen, speakers, buttons, on off switch, personalise, slim / thin, easy to fit in pocket/bag, games, compact, rechargeable, sim card, battery		One word answers might be acceptable form the list on the left.  Otherwise clarification / qualification is needed  Do not accept (unless clarified): size, colour, numbers, modern, light, small, portable, latest technology, strength  Accept additional features such as: flip phones  Accept simple layout because it refers to ease of use  "Ergonomic" on its own do not reward (see part (b)) – look for a specific point made e.g. size of buttons
		[3]	
(b) (i)	Products which are designed with the human in mind. A design to enable the user to work most efficiently	[2]	1 mark for how it affects the user / ease of use. Plus 1 mark for a point given: size, weight, shape, comfort, rounder corners, arrangement / layout of (keys), colour contrast, texture, measurement Examples of answers: [0] Ergonomics is designing for what consumers need [1] Comfortable to hold [1] Designed with user in mind [1] Easy to use {1} and carry around [Repeat point so no additional mark [2] How the product fits in with the human {1} the size fits the hand {1} [2] Something that has the human body in mind {1} made adaptable to use {1}
(ii)	Any two relevant physical measurements: percentiles of hand width, finger size, thumb size, distance between ear and mouth.	[2]	Do no accept anything that does not relate to human hand, face, Examples:  [0] Sizes of buttons – relates to phone not human  [0] fits into pocket / bag,  [0] finger pressure

(c)	Planned obsolescence relates to products becoming "out of date" as a result of deliberate design changes or technological developments.	[3]	Relevant points up to two marks (1 point each). Answers should relate to <b>specific</b> developments in: technology, fashion, continually changing services only available to new phones
	1 mark for each <b>different</b> point up to 2 marks plus 1 mark for the reference to effect on consumer.		As a result customers feel "compelled" / "feel they have to / need to" purchase the new model even though the existing ones still function perfectly satisfactorily
	Total	[10]	

Expe	ected Answer	Mark	Additional information
2 (a)	Strength / strong, toughness, impact resistance, durability, rust resistance, stainless, easy to clean, ability to be shaped / formed, quality surface finish, withstands abrasion - 1 mark for each.	[2]	Accept: Long lasting, hard wearing = durable Do not accept hard / hardness
(b)	Rack and pinion correctly labelled - 1 mark for each part correctly identified.	[2]	Where only one label has been used give a maximum of 1 mark if both parts correctly identified If the label is used more than once i.e. rack to two different components do not award any marks even if one of the labels is correct. Label must go to the actual pinion and not the pivot
(c)	Explanation could include: desirability, recognisable, image, fashion, style and elegance, 'keeping up with the Jones', perceived quality, better designed, better made, better materials, status symbol, collectability, peer pressure, celebrity endorsements, consumer confidence, reliability.  1 mark for each different point up to 2 marks plus 1 mark for the reference to effect on consumer.	[3]	Relevant points up to two marks (1 point each). [1] People pay more for designer products because they are better  Explanation must include a justification impact upon consumer choice  This must be present for three marks to be awarded.  An example of this might be: the name or brand is attractive to the consumer
(d)	Patent, copyright protection, registered trade mark, use of holograms e.g. football shirts  1 mark any of the above each plus 0-2 marks for detailed explanation.  OR 1 mark for up to two of the above plus 1 for explanation	[3]	Detailed explanation would follow:  1 mark for identification  1 mark for explanation of what it is with  1 mark for the legal protection  Examples:  [1]by making the product copyright  [2]though copyright {1} which prevents people form making products that look similar but do not function as well {+1}  [3]can patent {1} their designs and have a copyright{1}. This means that they can prevent people from copying their ideas and{1}
	Total	[10]	

Exp	ected Answer	Mark	Additional information
3 (a)	More efficient, takes up less space, flexible, easier to use, more tamperproof / tamperproof, hygienic, resalable, easier to carry, handle, screw cap, square shape, more compact volume, variety of sizes, shatterproof / impact resistance, safer	[3]	Ergonomic – easier to carry, pour The square shape gives two distinct advantages: 1 it takes up less space, 2 greater capacity / volume for the height Do not reward "lightweight" given in question.
(b)	An explanation of two different points that justify the choice in part (a)  One mark for a simple explanation such as: easy to hold Two marks for a detailed explanation such as: by adding a handle to the bottle it is now easier to hold and carry		If the point given is incorrect e.g. cheap, but a clear explanation is given the marks can be awarded accordingly.  The explanation requires a point plus a reason why the feature is successful.  For example:  [2] Point: Handle. Plastic can be moulded quickly {1} and can mould handles that are sturdy and easy to hold {1}  [1] Point: Screw top Means that the milk will stay fresher longer {1}
		[4]	
(c)	See through – people can see contents, gives the appearance of being high quality, looks better, traditional, standardised for a range of products, more easily recyclable, re-useable, does not taint, plastic may deteriorate over time / exposure to sun, carcinogenic fears, high pressure containers, less affected by heat, more rigid – protects contents, pierce resistant, used for storage for longer periods.		
	mark any of the above each plus 0-2 marks for detailed explanation.  OR      mark for up to two of the above plus 1 for explanation	[3]	
	Total	[10]	

### **Question 4 overarching comments:**

Irrespective of what "tick" response candidates have done, positively reward the content of 4 (a) and 4(b) Question 4 (a) and 4(b) may be different era or trend-setters.

N.B. Trend setter / iconic product must be selected from the list given in question i.e. not trend- setter / iconic product of their own or from a previous OCR Product Design Theme.

			amination paper, e.g. Mackintosh designed chairs in the Art Nouveau style.
		d-setter must be referred to.	
		and parts (b) a whole and reward:	for avalenation
	•	for three different points plus 1 mark	tion explanation
	of one of the p	OITIES	
	_	ota (0, 2) both avalained (0, 2)	41
		nts (0-2) both explained (0-2) [ Internal even if no trend-setter or incorrect	4]
[	Reward Conter		
		Points	Legacy / impact
4a		Trained as an Architect.	He designed commercial properties, public buildings and private homes.
<b>0</b> 11	_	Ambitious, promoted himself	He turned away from the ornate and historical associations of the Victorian style
Charles		through exhibitions, reviews,	towards a formal purity, decorated with organic and geometrical motifs. He used
Rennie		lectures and magazine articles.	much symbolism in the decoration;
Mackin		He argued for greater freedom	His work was complex and playful.
1868 –	1928	and encouraged other architects	It may take time for the observer to appreciate the clever details of his work.
		to be more experimental.	Many of his buildings are now considered classics of their time, especially
Art Nou	ıveau		The Glasgow School of Art and the Glasgow Tea Rooms.
		Also attended Art School.	He was one of the first to embrace the Art Nouveau style and he was a pioneer of the
		Worked hard, winning prizes.	Arts and Crafts Movement. He greatly influenced Vienna Secession and pointed the
		Saw himself as an artist.	way to Art Deco and Bauhaus.
		Interest in Japanese and	
400	(C)	Pre-Raphaelite influences.	
9	0		
	Barrier .	No boundaries to his designing:	He wanted people to look at everyday objects as pieces of art rather than objects.
		using glass, wood, metal and	He moved away from form follows function.
	100	fabrics, he designed jewellery,	Much of his furniture, with flowing, feminine lines, elongated forms and geometric
		panels, prints, clocks, furniture,	grids look like sculptured works of art.
		and complete interiors.	Every mark, every line, every surface, every space has a purpose or meaning;
			nothing in his work is arbitrary.

	World-wide design movements: his work was clever, original and inventive.	His work has been widely copied, and is always in demand. He has influenced subsequent design movements. His influence can still be seen today in modern products, such as jewellery, glass, furniture and architecture. Major influence towards Glasgow achieving status of European City of Culture.
4b	3 different points clearly explained: 1 mark for each point 1 mark for each justification. [6]	Only one product must be referred to.  Trend setter and iconic product can differ from 4a to 4b.  Iconic Product can be different from 4a but answer must relate to chosen product.  Must explain impact of the iconic product, not merely describe the product.  Reward good justification even if the point is relevant but not worthy of credit.
4 b  Macintosh Chair	He created <b>many</b> unique designs for chairs as part of a wider interior design.  Tall, straight / flowing lines. Shiny and black.  Incorporated motifs.  Oriental influence  Decorative rather than functional. Often found to be uncomfortable.	Horizontal / vertical lines. Floral/organic motifs and square holes. First seen in the 1890's when designs were still overly ornate.  Still popular today, widely reproduced, exhibited in museums and collections throughout the world, able to see influences in the work of modern designers. At the end of the Nave in Wells Cathedral, just below the famous Scissor Arch, is a modern set of 6 feet high Altar Chairs.  Use of glass, black japanning (ebonising), and white and silver colouring.  Functional, but was a statement of "Form before Function" for example the chair is symbolic of a throne (used at a ceremonial event).  Looks like a piece of sculpture: interplay of light and space and shadow.

4a	Only one trend-setter must be referred to. View parts (a) and parts (b) a whole and reward: Up to 3 marks for three different points plus 1 mark for explanation of one of the points OR 2 different points (0-2) both explained (0-2) [4] Reward content even if no trend-setter or incorrect trend-setter identified.		
4a Raymond Loewy 30, - 60's	Known as: The Father of Industrial Design. Commercial product design, transport, industrial design. Domestic products.	Era of air travel. Designs look like aeroplanes, Became known as "streamlining". Influenced designs: bull nosed fridges, the classic coke bottle, car body shapes, locomotives, aeroplane (Airforce 1), Greyhound bus, and the jukebox. He argued, that the egg is the perfect streamlined shape.  "Between two products equal in price, function and quality, the better looking will outsell the other."  "His products and services touched almost everyone in the US."  Improved people's lives.	
	Designs not restricted to one discipline.  Graphics: Simplification of designs for logos. Clear typography. Use of White Space.	Magazine illustration, fashion design, architecture, and furniture. He designed interiors for Concorde, NASA Skylab, and NASA Space Station.  Taking 3D objects and breaking them down into simplest forms. Use of primary, bold, few colours. e.g. Shell logo, Lucky Strike, Pepsodent, Hoover, Exxon. Now in purest from, no need to change – they are at their minimal-optimum. Typography was spaced out to improve visual impact. Use of white space: no visual clutter. Modern yet timeless. Graphic designs were simplified and easily recognised: this gave brand identity to the products and the company.	
	Voted as one of the most important American of the 20 <sup>th</sup> century	The continued use of streamlining in industrial and domestic product design, the reductionist approach to the design of modern company logos, and the enormous industry associated with product branding, are all a result of Loewy's influence.	

4b	3 different points clearly explained: 1 mark for each point 1 mark for each justification. [6]	Only <u>one</u> product must be referred to. Trend setter and iconic product can differ from 4a to 4b. Iconic Product can be different from 4a but answer must relate to chosen product. Must explain <b>impact</b> of the iconic product, not merely describe the product. Reward good justification even if the point is relevant but not worthy of credit.
4b Shell logo	Simple design using primary colours. Easy to remember (instantly recognisable). Subliminal recall. Uncluttered.	Initially developed for California. Used Hispanic flag colours. Looks like a crown, demands attention. Psychology of perception and memory. Psychological significance of red and yellow. Rising sun. New day. Sunrise. The future. Now used throughout the world.
	Uncomplicated. Symmetrical.  Can be photocopied and used in black and white	Design reduced to its perfect form. Spaced out lettering then removed. Has stood the test of time, since 1971 and has not been changed except colours made brighter. Influenced many other designs such as McDonald's logo. When enlarged / reduced does not lose impact or identity.

4a	Only one trend-setter must be referred to. View parts (a) and parts (b) a whole and reward: Up to 3 marks for three different points plus 1 mark for explanation of one of the points OR 2 different points (0-2) both explained (0-2) [4] Reward content even if no trend-setter or incorrect trend-setter identified.							
4 a  Transistors DoB: 23/12/1947 50's  BC182 BC108	Some discrete, most now found in integrated circuits, microchips, chips.  Semiconductor technology. Enabled smaller, lighter weight, more portable, stand-alone products.  Low cost, flexible, reliable, physically rugged, long life, insensitive to shock or vibration.	Amplify signal/ switch signal. Fundamental building block of computers and key active component in all modern electronic devices.  Digital computers led to digital information: TV, radio, newspapers  Considered the greatest invention of 20 <sup>th</sup> Century.  Chip the size of a fingernail contains 50 billion transistors.  Less power required so development of battery-powered products followed.  Huge increase in technological obsolescence.  Electronic control of appliances and machines, including aeroplanes, tube.  Improved warning systems and safety. Greater efficiency in manufacturing.  Led to the development of telephony, communication: social benefits such as medical, internet, travel, communications.						

4b	3 different points clearly explained: 1 mark for each point 1 mark for each justification. [6]	Only <u>one</u> product must be referred to.  Trend setter and iconic product can differ from 4a to 4b.  Iconic Product can be different from 4a but answer must relate to chosen product.  Must explain <b>impact</b> of the iconic product, not merely describe the product.  Reward good justification even if the point is relevant but not worthy of credit.				
<b>4b</b> Bush TR82 transistor	The first really portable radio. Reliable. Good reception.	Made radios accessible to many more people because prior to this, radios were items of furniture.  Battery operated, allowing freedom of use anywhere.  Used in cars, which led to the development of in-car entertainment systems.  Work patterns changing: more time spent in cars.				
radio. 1959	Relatively low cost. Iconic shape – appeals to young.	Very popular with younger generations: beginning to have more money. The time of popular music culture: birth of rock and roll, Radio Luxemburg. No warm up time needed compared to valve sets. Listen under the blankets.				
	Modern looking. Streamlined. Available in different colours.	Radios that followed were influenced by that design. Still available today as a reproduction item.				

4a	Only one trend-setter must be re							
	View parts (a) and parts (b) a who	le and reward:						
	Up to 3 marks for three different points plus 1 mark for explanation							
	of one of the points	of one of the points						
	OR							
	2 different points (0-2) both explai	ned (0-2) [4]						
	Reward content even if no trend-s	etter or incorrect trend-setter identified.						
4a	Opened a boutique in 1955 in	Offered young shoppers fun clothes, individual attention from trendy, young staff,						
	London. Challenged the British	with hip music and artistic lighting.						
Mary Quant	retailing system. Broke the hold	Window displays were stunningly creative.						
•	of traditional made to measure	Many clothing shops <b>now</b> have younger fashion conscious staff, with disco lighting						
60's	tailoring. Went into mass	and pop music.						
<b>学生的主义</b>	production. Opened shops in	Fashion has become the province of the young. Women want to be younger. 40 is						
1995周前周围18	North America and Europe.	the new 30.						
1000	Awarded OBE in 1966.							
	Took a leading role in the sixties	Young women had greater freedom (e.g. the pill) and more money. They wanted to						
	revolution.	be different from their mums. Quant challenged conventional design thinking and						
		moral attitudes.						
		Women's rights, less formal, less conservative, justified freedom.						
		More women into higher education and into careers.						
1	She created clothing and	g to the design of the second						
	accessories that were different.	Obs. for more the considering the Point Plant and the "A" I'm address						
The second second	Cheap separates.	She frequently used her own "Daisy" logo, and the "A" line dress.						
	Cheap coparation							
		She capitalised on the Op Art and Pop Art of the time with						
	Short skirts, hot pants, knee	bright, bold colours, often black and white contrasting checkerboard patterns.						
	length boots, tights, and plastic	She re-worked successful features of Coco Chanel by adding contrasting borders to						
	mac. Bold and flamboyant colour	garments.						
	combinations	She capitalised on the new materials available. Fine denier nylon for patterned						
		stockings. PVC as an alternative to leather. Corfam for boots.						
		Made items more colourful, more varied and more affordable.						
		She designed for comfort and function.						
	Regarded as the mother of							
	sixties fashion design, which	Inspired other designers such as Christian Dior.						
	made London the design capital	Her work is still exhibited worldwide and studied by up-and-coming fashion students.						
	of the world for a decade.	7 .						

4b	3 different points clearly explained: 1 mark for each point 1 mark for each justification. [6]	Only <u>one</u> product must be referred to.  Trend setter and iconic product can differ from 4a to 4b.  Iconic Product can be different from 4a but answer must relate to chosen product.  Must explain <b>impact</b> of the iconic product, not merely describe the product.  Reward good justification even if the point is relevant but not worthy of credit.
4b Mini Skirt.	Daring design. Caused a sensation. A statement about the freedom of women to express their sexuality. Named after her favourite car of the time.	Icon of the generation – encapsulated whole ethos of the 1960's – sexual freedom – statement about femininity – ability receptivity whilst looking "attractive". Changed people's attitudes toward dress, changed convention. Moved from conservative to freedom to express themselves. More comfortable, more manoeuvrable Quote: Now women can run for buses.

4 a	Only one trend-setter must be referred to.  View parts (a) and parts (b) a whole and reward:  Up to 3 marks for three different points plus 1 mark for explanation of one of the points  OR  2 different points (0.3) both explained (0.3)						
	2 different points (0-2) both explain						
4a	Foods that have been altered from their original state for safety or convenience. Or profit.	Changed shopping habits. The big weekly shop rather than every day.  Less time at home for domestic activities, e.g. cooking.  For the food manufacturer it creates add-on value to the basic price for the food.					
Processed	Capable of being stored for long	To the loca managed or to cate add on value to the basic price for the loca.					
Food	periods.	Taken to or used in areas where no facilities to refrigerate. Expeditions.  Desiccated / dried / and re-constituted with just water.					
70's	Lifestyle changes, more women at work, more time watching TV.  New Technologies: <ul> <li>freeze drying</li> <li>freezing</li> <li>refrigeration</li> <li>chill cook process</li> <li>dehydration</li> <li>use of additives</li> <li>preservatives</li> <li>aseptic packaging</li> <li>canning</li> </ul>	Led the way for convenience foods and ready meals, (meaning easier, quick preparation, labour saving for consumer).  Some foods are considered fine, e.g. milk and fruit juice, or frozen peas. Many processed meats are considered a health risk.  Has ultimately contributed to obesity, and behavioural problems.  Paper, polythene and aluminium.					
4b	3 different points clearly explained: 1 mark for each point 1 mark for each justification.[6]	Only one product must be referred to.  Trend setter and iconic product can differ from 4a to 4b.  Iconic Product can be different from 4a but answer must relate to chosen product.  Must explain impact of the iconic product, not merely describe the product.  Reward good justification even if the point is relevant but not worthy of credit.					

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4b		
Pot Noodle.	Simple to prepare. Quick / little effort. No washing up. Same pot.	Social changes: more people living on own, more student populations, divorce, therefore responding to consumer opportunities.  Staple diet of those with limited resources / time
	Formally "instant Noodle" Bulking properties. Starch / carbohydrate. Very tasty.	Ability to capitalise on population issues such as: part of breakaway movements "take away" Indian / Chinese / Italian, more overseas travel demanded newer "tastes". Low in fat 5% No artificial colours or preservatives. 100% suitable for vegetarians.
A. C	Brand image.	Love / hate relationship, "cult" status Paved the way for similar products such as cup a soup, bean feast.

5a	One mark for each key specification point – no marks awarded for points identified in the question. (0-4)		Specification point is a positive statement about the form, the function, the user requirements, or the constraints of the situation.
			Together with the design need, the specification points should inform the design activity.
5b	Initial ideas Only one sketched solution with no accompanying notes One sketched solution with notes OR range of solutions with no notes  More than one sketched solution with notes A range of different ideas that address at least two specification points A creative approach to designing	(1) (2) (3) (4) (5) [5]	For Fridge Alarm responses reward according to mark scheme even if an electronic system not shown.  For Processed Meal accept each course as a separate idea if that is the candidate approach.

(1) (2)

(5)

[5]

[6]

		Development of ideas – must reflect the product foc	us
	5c	One sketched solution showing an idea from the initial	
		ideas with some development - no notes	(1
		One developed idea with notes	(2
		Development of an idea evidenced with supporting	
		sketches/notes	(3
		Clear development of an idea with notes that link to at	
		least two specification points	(4
		A range of developed sketches with notes that link to	
		at least three specification points	(5)
		·	
ı			

In this part candidates must address the requirements of the "design need in the situation". For example the 1970's influence must be seen in the development.

Candidates should draw upon specific subject material knowledge, and focus their design thinking towards the specification.

Where there are no creditable specification points in 5a maximum marks available are 2.

To move beyond 2 marks there must be evidence on the page of developmental activity/decision making

To obtain full marks candidates must consider their own specification.

For Fridge Alarm responses a system must be shown, and no marks to be awarded for aesthetic developments.

#### final proposal

A simple solution with limited detail/notes (1) A solution with details of all components/parts (2)

Notes/clear sketches showing how the design meets their specification point 1 (1) Notes/clear sketches showing how the design meets their specification point 2 (1) Notes/clear sketches showing how the design meets their specification point 3 (1) Notes/clear sketches showing how the design meets their

specification point 4 to include some manufacturing details(1)

Candidates should show relevant details for manufacture:

- materials/ingredients/components.
- sizes / dimensions / quantities,
- methods / joining / mixing techniques,
- tools / equipment,

Evidence of detail may be taken from 5c and/or 5d, but not 5b

**Accept** justified points related to the candidates' **own specification**, even if not rewarded in 5(a), and / or any points given to the candidates in the design need of the actual question. E.g. 1970's nutritionally balanced meal.

## **Grade Thresholds**

GCSE Product Design (Specification Code J900/901) June 2008 Examination Series

### **Unit Threshold Marks**

Unit		Maximum Mark	a*	а	b	С	d	е	f	g	u
B801	Raw	90	83	69	55	41	35	29	24	19	0
(01)	UMS	120	108	96	84	72	60	48	36	24	0
B801	Raw	90	83	69	55	41	35	29	24	19	0
(02)	UMS	120	108	96	84	72	60	48	36	24	0
B802	Raw	60	50	43	36	30	26	22	19	16	0
	UMS	80	72	64	56	48	40	32	24	16	0
B803	Raw	90	76	64	52	41	34	27	21	15	0
(01)	UMS	120	108	96	84	72	60	48	36	24	0
B803	Raw	90	76	64	52	41	34	27	21	15	0
(02)	UMS	120	108	96	84	72	60	48	36	24	0
B804	Raw	60	45	38	31	24	20	16	12	8	0
	UMS	80	72	64	56	48	40	32	24	16	0

## **Specification Aggregation Results**

400

J901

Overall threshold marks in UMS (i.e. after conversion of raw marks to uniform marks)

	Maximum Mark	<b>A</b> *	Α	В	С	D	E	F	G	U
J900	200	180	160	140	120	100	80	60	40	0
	Maximum	<b>A</b> *	Α	В	С	D	E	F	G	U

The cumulative percentage of candidates awarded each grade was as follows:

320

360

	<b>A</b> *	A	В	С	D	E	F	G	U	Total No. of Cands
J900	0.5	6	24	46	63	77	88	97	100	1249
J901	1	9	34	60	77	88	95	99	100	2794

280

240

200

160

120

80

0

Statistics are correct at the time of publication

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