Mark Scheme (Results)

Summer 2008

GCSE Design & Technology:
Textiles Technology (1971) Paper 2F

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1971 2F Mark Scheme

Question Number	Answer	Mark
1 (a)	**Name:** Thimble (1) **Use:** To protect/stop pricking/hurting /injuring finger / To push a needle/pin through material (1) **Name:** Buckle (1) **Use:** Fastening / Closing / Shutting / Secure / Hold belt in place(1) **Name:** Iron (1) **Use:** Ironing /Pressing / removing creases / making smooth (1) **Name:** Quick un-pick / un-picker / stitch ripper / picker (1) **Use:** Taking out/unpicking stitches/tacking / cutting button holes / undoing wrong things/work/stitches/seams (1) **Name:** Sewing machine (1) **Use:** To sew /stitching / make buttonholes / to put in a zip / joining/making a seam (1) (10 x 1) *(accept phonetic spellings)*	**(10)**
1 (b)	**Three reasons given from:** • Easy to do up / undo / use / children can use easily (1) • Quick to undo / do up (1) • Adjustable / can be worn half open/fully closed / can be partly done up/undone (1) • Can be undone from the bottom (1) • Doesn't come undone accidentally (1) • Keeps out the cold / wind / rain (1) • Can let air in (1) • No gaps (1) • Flat & inconspicuous/can be hidden (1) • Cannot be lost (like buttons) (1) • Durable / hardwearing (1) (3 x 1)	**(3)**
1 (c)	**Two safety actions given from:** • Change presser foot to a zipper foot / use correct foot (1) • Move needle position to L or R of zipper foot (1) • Remove any pins (1) • Take care not to machine over the zipper teeth / zip in straight (1) • Keep fingers out of the way (1) • Switch sewing machine off when not in use (1) • Tie hair back (1) • Remember to put presser foot down (1) • Keep head away from balance bar (1) • Sew slowly (1) (2 x 1)	**(2)**

1 (d)(i)	Two items named from:	
	• Tights / Stockings (1) • Socks (1) • Knickers (1) • Vests (1) • Briefs / Boxers / Pants (1) • Plain T-shirt / shirt (1) • Underwear (1) *(this can be credited for one mark only; **no further marks** can be awarded if Knickers, Briefs, Boxers or Pants are also given.)* (2 x 1)	**(2)**
1 (d)(ii)	One reason explained from:	
	• Fashion **changes quickly** therefore new ideas can be **produced/made easily/quickly** • Fashion is **constantly changing** so **limited production** possible • Materials bought in **bulk/large quantities** so **economies of scale/cheaper** • **Made quickly** so they can be **priced reasonably/ are cheaper** • **Not expensive** as **hand processes rarely used** • Manufactured in **standard sizes** so **no fitting required** (2 x 1)	**(2)**
1 (e)	Three advantages given from:	
	• Performs repetitive tasks quickly / no time wasted (1) • Designers can spend more time on research and/or creating new ideas (1) • Easily/quickly fills in and changes colours/patterns/fabrics (1) • Can see the design in different colours / ways/ patterned fabric (1) • Can cut & paste motifs (1) • Motifs can be rotated, mirrored, squashed or stretched (1) • Knitting stitches of woven structures can be simulated (1) • Images can be stored and then used again later (1) • Designs/ style features / size / shape can be adapted quickly/easily instead of starting again from scratch (1) • Allows a completed design to be seen from all angles / 3D (1) (3 x 1)	**(3)**
	Total for question	**22**

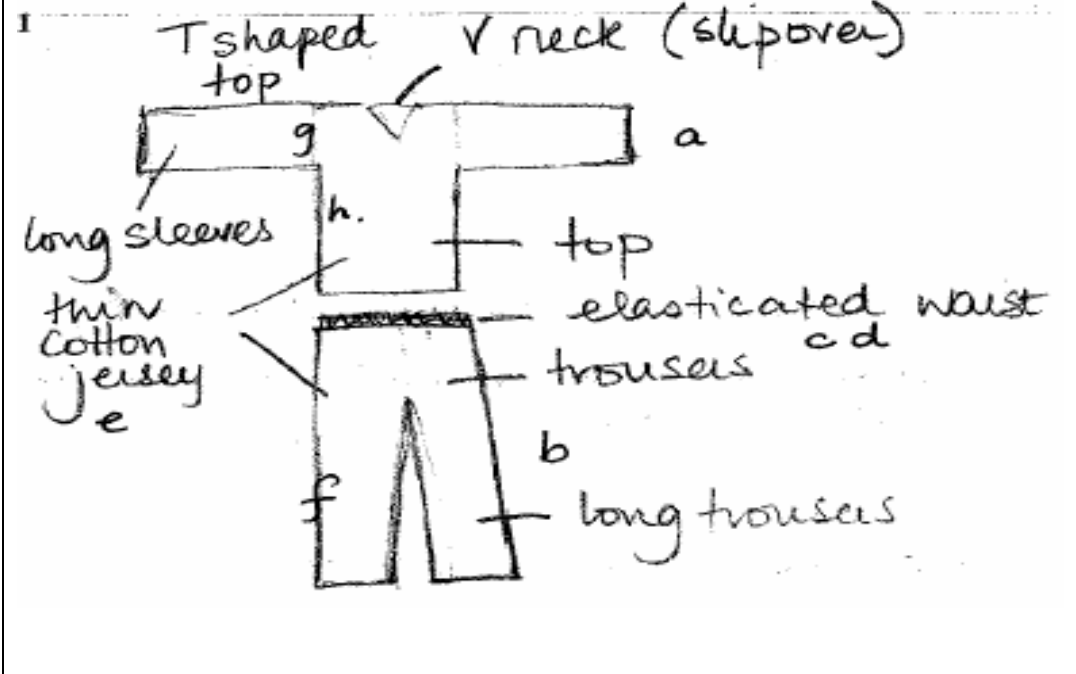| Question Number	Answer	Mark
2 (a)	**Any two fibres named from:** • Viscose / Rayon / Fibra / Evlan / Sarille (1) • Acetate / Dicel (1) • Triacetate / Tricel (1) • Lyocell / Tencel (1) • Polyamide / Nylon / Antron / Cordura / Tactel (1) • Polyester / Terelene / Crimplene / Trevira / Dacron (1) • Acrylic / Courtelle / Draylon / Dolan / Orlan / Teklan (1) • Elastane / Lycra / Spandex (1) • Aramid / Kevlar / Nomex (1) (2 x 1)	**(2)**
2 (b)	**Any three properties given from:** • Warm / insulating (1) • Absorbent (1) • Good elasticity / resilience / stretches (1) • Does not burn easily/fire resistant (1) • Attacked by moths (1) • Soft / Coarse (1) • Repels water (1) • Crease resistant (1) (3 x 1)	**(3)**
2 (c)	**Two working characteristics given from:** • Frays when cut (1) • Not warm / keeps you cool (1) • Does/may not drape well (1) • Does/some drape well (1) • Does not stretch (1) • Stronger when wet (1) • Takes dyes well (1) • Wears well / hardwearing / strong (1) • Easily washable (1) • Creases easily (1) (2 x 1)	**(2)**
2 (d)	**Two reasons given from:** • To combine/improve the performance properties/good points of the fibres (1) • To make fabrics more economical/cheaper (1) • To create decorative effects /textures /finishes (1) • To produce multi-coloured yarns (1) (2 x 1)	**(2)**

2 (e)	One reason explained from: • **Keeps/recovers its shape** after being **stretched** to put on. • **Easy to put on** and **fits well** • Will **absorb sweat** and **keeps wearer cool / not as hot.** • Does **not crease easily** so good **appearance is maintained** • **Flexible/stretches** while wearing so does **not restrict movement** • **Soft fabric** so **comfortable to wear** (2 x 1)	**(2)**
2 (f) (i)	One advantage given from: • Makes the surface smoother (1) • Less likely to pill (1) • Item will retain a good / neat appearance (1) (1 x 1)	**(1)**
2 (f) (ii)	One reason given from: • To change the appearance of denim (1) • To make the denim look faded/worn (1) • To make the denim look more fashionable (1) (1 x 1)	**(1)**
2 (f) (iii)	One disadvantage given from: • Jeans wear out more quickly / don't last long / not as hardwearing (1) • Jeans can tear easily (1) • Designs go out of fashion quickly / short fashion life (1) • Items are less desirable once out of fashion (1) (1 x 1)	**(1)**
2 (g)	Four pieces of information given from: • Wash at 40°C (1) • Do not bleach (1) • Hot Iron (1) • Do not tumble dry (1) • Can be Dry cleaned (1) (4 x 1)	**(4)**

2 (h)	One way given from: • Less waste/rubbish (1) • Landfill reduced (1) • Fewer natural resources used (1) • Less pollution (1) (1 x 1)	(1)
2 (i)	**Three techniques marked:** • Batik (1) • Hand embroidery (1) • Tie Dye (1) *(Only answers)* (3 x 1)	(3)
	Total for question	**22**

Question Number	Answer	Mark
3 (a)	**Design idea 1**	

Design responses
Consist of two separate garments

Any two garments
- e.g. trousers & top, dress & T shirt, skirt & blouse, dungarees & T shirt, dress & jacket *(Acceptable to draw 3 items but mark only 2)*
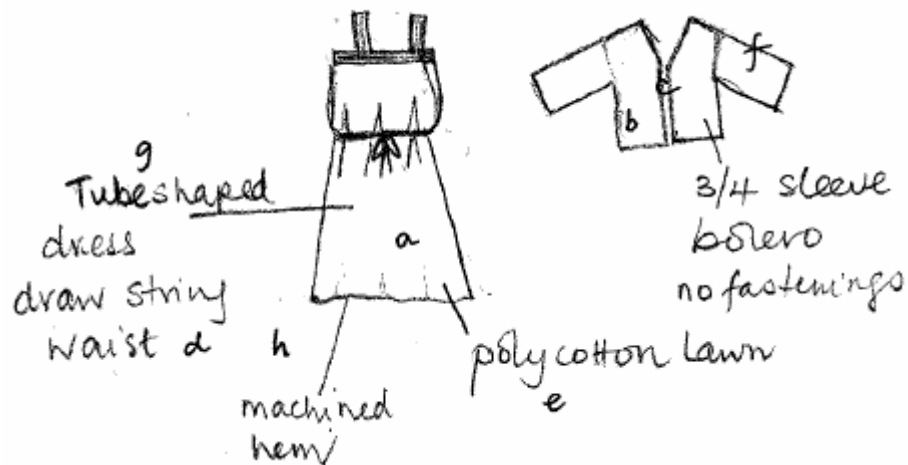
Be easy to put on and take off
- e.g. elasticated waist, open down the length, use of Velcro, stretch fabric, large neckline.

Use a lightweight fabric and give protection from the sun
- Any lightweight fabric annotated e.g. seersucker, lawn, gingham etc.
- Protection from sun shown by design e.g. long sleeves, removable jacket, trousers or by type of fabric annotated.

Be made using a process suitable for production in a school textiles room.
- Evidence of a process e.g. seams, fastenings, hems, embroidery techniques (CAM)
- Evidence of suitability for school textiles room e.g. produced using a domestic sewing machine.

(8)

Design idea 2

To score a mark for Design Idea 2, each specification point must be resolved again in the second design idea but the second design idea **must be technically/conceptually different in design and construction** from the first and not a simple variation on a theme to score the mark.
Use exactly the same criteria as design idea 1 to mark design idea 2.

- A different indication of two separate garments (1)
- A different indication of type of garments (1)
- A different method of putting on (1)
- A different method of taking off (1)
- A different choice of lightweight fabric (1)
- A different method of protection from the sun (1)
- A different process (1)
- A different method suitable for production in a school textiles room (1)

(8)

3 (b)	**Each point clearly evaluated** • If a candidate has indicated design idea 1 and then evaluates design idea 2 for all or part of (i), (ii) & (iii) then the idea in greater evidence should be marked. • The evaluation of the design must contain reference to either positive or negative aspects not just simply a description of the design. • Award 1 mark for a correct evaluation/justification relating to each design feature and how it succeeds or fails.	
3(b)(i)	**Be easy to put on and take off** Comments (positive or negative)on: • Type of fastenings which are accessible and easy to use. (1) • Design ideas that allow the garment to be taken on and off easily (1) e.g. elasticated waist, long zip, stretch fabric, low neck etc. (2 x 1)	**(2)**
3(b)(ii)	**Use a lightweight fabric and give protection from the sun** Comments (positive or negative)on: • Properties of fabric chosen showing lightweight (1) • Properties of fabric chosen showing protection from the sun (1) • Design of garments to protect from sun (1) e.g. loose, with sleeves, removable items. (2 x 1)	**(2)**
3(b)(iii)	**Be made using a process suitable for production in a school textiles room.** Comments (positive or negative)on school textiles equipment for**:** • Seams, types of seams, construction methods (1) • Fastenings, types of fastenings, construction methods of fastening (1) • Decoration, types of decoration, construction methods of decoration (1) (2 x 1)	**(2)**
	Total for question	**22**

Question Number	Answer	Mark
4 (a)(i)	One point and reason from: **Market** **Point:** Appealing to the wearer. **Reason:** Item must appeal to their needs and tastes. **Point:** Unisex / fashionable colour **Reason:** To appeal & get market share **Point:** Bright colour / reflective strips **Reason:** To be seen in the rain/all weather conditions/the dark **Point:** Suitable price **Reason:** To suit the budget available **Point:** Size **Reason:** Available in different sizes for all ages **Point:** Wipe clean **Reason:** Easy to maintain **Point:** Easy to get on and off **Reason:** Need to put on quickly when the weather changes (2 x 1)	**(2)**
4 (a)(ii)	**Environmental** **Point:** Reduced obsolescence *(not a high fashion item)* **Reason:** Can be handed down/reused **Point:** Washed easily / washable at 30ºC gentle wash/ no need to iron **Reason:** Less energy used drying / ironing. **Point:** Durable/hardwearing/ last a long time **Reason:** Reduced amounts in landfill (2 x 1)	**(2)**

4 (a)(iii)	**Quality** **Point:** Well made (1) eg. stitching secure and accurate,/ edges finished accurately/appropriately, /pockets/zips secure. **Reason:** Item worn by children so must be firmly stitched/components attached securely (1) **Point:** Durable / hardwearing fabrics (1) **Reason:** To withstand wear and tear / last a long time (1) **Point:** Waterproof / resistant fabrics (1) **Reason:** To protect the wearer from rain (1) **Point:** Lightweight (1) **Reason:** Easy to carry around /comfortable to wear (1) **Point:** Good quality components (zip) (1) **Reason:** To withstand wear and tear/ be reliable (1)		
		(2 x 1)	**(2)**
4 (b)(i)	**Two reasons given from:** • Shower proof/water resistant (1) *(do not accept waterproof)* • Wind resistant (1) • Easily washed / drip dried/ dries quickly (1) • Can pack up small (1) • Strong / hardwearing / durable (1) • Flame resistant (1) • Warm to wear (1) • Not expensive (1) • Lightweight (1)		
		(2 x 1)	**(2)**
4 (b)(ii)	**Two reasons given from:** • Still looks presentable / uncreased when removed from the bag (1) • Doesn't need ironing (1) • Doesn't need secondary finishing (1) • Makes it easier to care for (1)		
		(2 x 1)	**(2)**

4 (c)	**Two properties with reasons from:** **Property:** Good insulation/warm/fluffy **Reason:** Keeps wearer warmer as raised fibres trap air. **Property:** Easily washable /by machine **Reason:** Frequent washing required due to item getting dirty. **Property:** Soft/comfortable to wear **Reason:** Will not be uncomfortable / irritable / wearers will want to wear it. **Property:** Absorbent **Reason:** Will absorb perspiration when playing (2 x 1)	**(2)**
4 (d)	**Two checks named from:** - After cutting to check sizes within tolerances (1) - Tolerance levels for seam widths (1) - Stitching quality (1) - Zips are straight / work correctly (1) - Elasticated wristbands the same width (1) - Reflective strips the same width (1) - Lining not twisted (1) - Check for inclusion of care label (1) - No loose components (1) - Position / Size of logo (1) (2 x 1)	**(2)**
4 (e)	**One reason described from:** - **Only one colour / one screen needed** therefore **economical to produce** - **Simple pattern** so **easy to produce the stencil on the screen.** - **Easy to achieve a consistent professional finish** so **good quality product** manufactured - **Easily programmed** so **quick / cheaper / less effort** to produce in batches (2 x 1)	**(2)**
4 (f)(i)	One example explained of how each purpose is achieved from: **Be seen in the dark** - **Reflective strips** will be picked out by **lights in darkness** - **Bright yellow colour** will **reflect / shine if lights hit it** (2 x 1)	**(2)**
4 (f)(ii)	**Be able to fit into a small bag for carrying** - **Light weight / thin fabric** so **easy to fold up / make smaller.** - **Flexible components** so **easy to fold up.** (2 x 1)	**(2)**
	Total for question	**22**
	Total for paper	**88**