

General Certificate of Secondary Education

Design and Technology (Graphic Products)

Short Course Higher Tier (3553/H)

Mark Scheme

2007 examination - June series

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Marketing & Product Analysis
Tick/cross in boxes, then total row. Question total in box. 9 x 1 mark

| Mobile Phones | Typical user/buyer (avoid repeat answers) | Aesthetic feature (avoid repeat answers) Look for pleasing, layout, comments. | Function symbol on box (one word answers OK) Accept one word answers |
|---------------------|---|--|--|
| Value Phone | | | (a) has texting facilities, accept SMS (b) has ringtones (accept plays music), MP3, |
| Fashion Phone | e.g. girl, young woman, teenager etc | e.g. flower printed on the casing, clean shape | (c) has built in camera (photography) (d) access to the internet |
| Disposable Phone | e.g. student (from specification), hiker, adventurer, camper etc | e.g. simple, clean layout, uncluttered, metallic finish, bronze finish, large buttons | (e) direct to emergency services |

TOTAL 9 marks

Lighting Effects & CAD (a) Light source Symbol copied and positioned so as to illuminate drawing. 1 mark 1 mark Not used 0 marks Rendering - high and low on features e.g. buttons, AQA and screen Very good relief shown, e.g. consistent good quality, highs 2 marks 2 marks & lows evident, same angle shadow. Adequate relief, some details consistent 1 mark Relief not attempted 0 marks Very good rendering e.g. high quality, consistent – 3 tonal 4 marks 4 marks ranges Good rendering e.g. tonal control, minimum range of colour, good pencil skills – with boundaries, even covering. 3 marks Satisfactory rendering e.g. attempt at some tonal control – not always successful. 2 marks An attempt, untidy, little evidence of care or skill. 1 mark Hatching, scribble, unworthy of reward, not attempted 0 marks If light source is inconsistent with shading, maximum = 2 marks (b) **CAD Icons** Icon Number 1 Good understanding clearly explained 2 marks 2 marks Some understanding but less specific 1 mark Incorrect, not attempted 0 marks Icon Number 2 Meaning: e.g. good understanding based on 'meaning' - rotate 1 mark 1 mark Incorrect, not attempted 0 marks Rotate thro' 90 degrees OR change orientation portrait to landscape (be specific). 2 marks 2 marks Some understanding but less specific 1 mark **Icon Number 3** Meaning: e.g. Add text, lettering, edit text 1 mark 1 mark Incorrect, not attempted 0 marks Use: 2 marks e.g. good understanding based on 'meaning' 2 marks Some understanding but less specific 1 mark Incorrect, not attempted 0 marks (ii) **Print Command** Good 2D representation of printer e.g. neat, clear. 2 marks 2 marks Adequate representation – less precise, 3D drg 1 mark Incorrect, not attempted 0 marks

Use of 'sketching space' relating to printer

1 mark

1 mark

TOTAL

18 marks

| | | TOTAL | 10 marks |
|------------|---|------------------------------|----------|
| | e.g. eyecatching Not relevant, not attempted. | 0 marks | |
| | Good attempt some relevant reasoning Superficial, not justified comment, unsupported statement | 2 marks 1 mark | |
| (ii) | Evaluation (in context of lettering on box) Critical comment, relevant and reasoned statement | 3 marks | 3 marks |
| | Satisfactory quality of draw letters Poor line work, blunt, untidy, very uneven Not attempted, scribble etc | 2 marks 1 mark 0 marks | 2 mark |
| | Obvious use of grid lines and/or guidelines | 1 mark | 1 mark |
| | Adequate letters including 'single lines' Not attempted | 0 marks | |
| (b) (i) | Letter style(s) (don't have to be coloured) Good quality letters, consistent | 2 marks 1 mark | 2 marks |
| (ii) | Serif Part accurately identified and coloured Incorrect | 1 mark 0 marks | 1 mark |
| (a) (i) | Letter Styles Bar Part accurately identified and coloured Incorrect | 1 mark 0 marks | 1 mark |

2 marks

1 mark

0 marks

TOTAL

16 marks

Development of Ideas Images (do not accept lettering on its own): (a) Three or more different discrete images on theme (i) 3 marks 3 marks Two discrete images, may include some development 2 marks One image. 1 mark Incorrect theme. Not attempted 0 marks (ii) Colour - swatches, labels, full colour Colour indicated through designs 2 marks 2 marks Some features indicated 1 mark Not attempted or minimum use 0 marks (iii) Notes Critical, relevant, related to design – why? 3 marks 3 marks Descriptive, some relevance implied 2 marks An attempted, some relevance to ideas or labels only 1 mark Confused, unclear, not attempted. 0 marks (b) Image 1 mark Recognisable image transferred from (a) 1 mark New image, not attempted 0 marks Development Clear evidence of development – progression evident 4 marks 4 marks Some development but limited stages/images, incremental 3 marks Development implied, not obvious or single sketch including 2 marks changes One idea, no development or discrete ideas 1 mark Confused, unclear, not attempted. 0 marks (iii) Evaluation Critical, relevant, related to design – why? 3 marks 3 marks

Descriptive, some relevance implied

Confused, unclear, not attempted.

An attempted, some relevance to ideas or labelling only

Lay out & Presentation Drawing (a) Specification: All three specification points or boxed areas/features applied 3 marks 3 marks to all boxes (3 x 1 mark) Block areas used to represent spec (can be words) 1 mark 1 mark (b) Line quality: Very good, clear, consistently neat, sharp line etc. 2 marks 2 marks (i) A fair attempt, lacks precision 1 mark Very blunt / scribble / not attempted 0 mark (ii) Colour rendering: Good quality, enhances drawing, visual impact, e.g. good tonal control, very good block colouring. 4 marks 4 marks Satisfactory, controlled use of media, e.g. some attempt at higher skills - tone, good block colour (good monochrome max.) 3 marks Adequate, block colour, some imperfections 2 marks Poor, an attempt, basic colour skills, very untidy 1 marks No colour – line drawings only 0 marks Layout on box lid: (iii) Good visual impact, e.g. effective use of space, 'margins', 3 marks 3 marks using full specification. Satisfactory, some sense of composition, or incomplete 2 marks Adequate spacing, some imperfections e.g. crowded, 1 mark 'unbalanced', 1 specification feature only. Very poor, no sense of composition, or not attempted 0 mark TOTAL 13 marks

3 marks

6 Materials and Components

(a) Fastening

Will it work?

Good understanding of tab/slip locking mechanism

3 marks

Some understanding, but details missing (not quite work)

2 marks

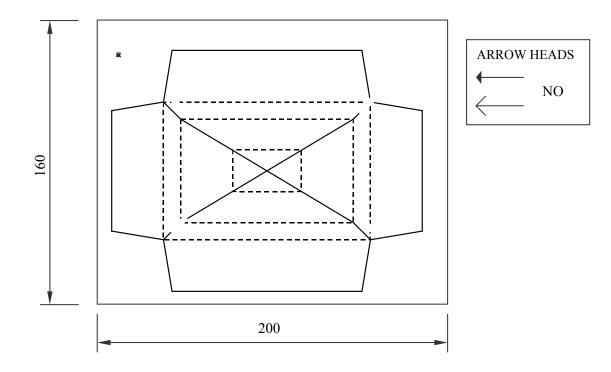
An attempt at locking (in context of question)

1 mark

Drawing quality

Good communication, easy to understand, informative 2 marks
Adequate communication, e.g. some mis-alignment 1 mark
Confused, hard to follow, wrong context, not attempted 0 marks

(b) Surface Development e.g.



| (i) | Cut lines | | 2 marks |
|------|--|---------|---------|
| | All outside edges inc line symbol | 1 mark | |
| | Both inside 'diagonals' inc line symbol | 1 mark | |
| (ii) | Fold lines | | 3 marks |
| | All outer folds correct inc line symbol | 1 mark | |
| | All middle folds correct inc line symbol | 1 mark | |
| | All inner folds correct inc line symbol | 1 mark | |
| | Neat and accurate, freehand OK | 1 mark | 1 mark |
| | Untidy, inaccurate, careless | 0 marks | |
| | | | |

(c) B.S. (see above for guidance) Card out line identified (length x width) plus size 200 x 160 and orientation Leader lines - consistently not touching outline Arrow heads - all neat, touching leaders Dimension lines - parallel, no gaps 4 mark 1 mark 1 mark 1 mark

15 marks

7 Cultural, Social & Environmental

(a) Signs – with reference to batteries



Meaning:

| Do not put in household rubbish, bin, wheelie | 2 marks | 2 marks |
|--|---------|---------|
| Some understanding, not explicit, generalisation e.g. do not | 1 mark | |
| throw away | | |
| Incorrect, confused, not attempted | 0 marks | |
| Reason: | | |
| Good understanding e.g. contamination of earth, poisons, | | |
| danger in land fill etc | 2 marks | 2 marks |
| Some understanding e.g. a danger | 1 mark | |
| Incorrect, confused, not attempted, recycle | 0 marks | |



Meaning:

| Do not burn, do not put in fire, do not incinerate Some understanding, not explicit, generalisation, away from fire | 2 marks 1 mark | 2 marks |
|---|------------------------------|---------|
| Incorrect, confused, not attempted, flammable Reason: | 0 marks | |
| Good understanding e.g. danger, poison, contamination of air Some understanding e.g. a danger, keep away from fire Incorrect, confused, not attempted | 2 marks 1 mark 0 marks | 2 marks |

(b) (E

Meaning:

European standard (or Safety) 1 marks
Incorrect, confused, not attempted 0 marks

(c) EC Flower 3, 2, 1, 0 3 marks
For full marks, reward three features e.g. marks

colour – green/blue for environment e.g. clean, recycle, etc.

flower – growth, health, etc **Stars/e mark** – Europe, flag etc

OR if one or two features reward reasoning pro rata. e.g. stars – symbol on EC flag, identified as European standard.

(d) 'Wind up symbol'

Use of Designing Space – related to symbol 1 mark 1 mark



| Is meaning clear and well communicated e.g. crank, turn, Some understanding, generally communicates idea An attempt related to question Incorrect, confused, not attempted | 3 marks 2 marks 1 mark 0 marks | 3 marks |
|--|---|------------------|
| Style: 2 – Dimensional Block coloured (incl white) | 1 mark 1 mark | 1 mark 1 mark |
| e.g. single line arrows = 0 marks Word-less, no text, no instructions | 1 mark | 1 mark |
| | TOTAL | 19 marks |