Surname				Other	Names			
Centre Nun	nber				Candi	date Number		
Candidate	Signa	ture						

For Examiner's Use

General Certificate of Secondary Education June 2008

DESIGN AND TECHNOLOGY (GRAPHIC PRODUCTS) Written Paper Foundation Tier 3543/F

F



Thursday 19 June 2008 1.30 pm to 3.30 pm

### For this paper you must have:

 a pen, a pencil, a ruler, an eraser, a pencil sharpener and coloured pencils.

You may also use marker pens and 45/60 degree set squares.

Time allowed: 2 hours

#### Instructions

- Use black ink or black ball-point pen.
- Fill in the boxes at the top of this page.
- Answer all questions.
- Answer the questions in the spaces provided.
- Show the working of your calculations.
- Detach the blue sheet from the back of this examination paper to use in between the sheets to prevent ink bleeding through to the next sheet.
- Do **not** hand in the blue sheet at the end of the examination.

#### Information

- The maximum mark for this paper is 125.
- The marks for questions are shown in brackets.
- All dimensions are given in millimetres unless otherwise stated.
- You are reminded of the need for good English and clear presentation in your answers.

#### Advice

• You are advised to answer the questions in this paper in the order in which they are written.

For Examiner's Use						
Question	Mark	Question	Mark			
1		5				
2		6				
3		7				
4						
Total (Co	olumn 1)	-				
Total (Co	-					
TOTAL						
Examine	er's Initials					

TP/Jun08/3543/F 6/6/6/ **3543/F** 

This c	uestion is about the environment and evaluation and is worth 22 marks.		(c) The logo in Fig	gure 1 is to be re-designed	and simplified.	
You a	e advised to spend about 20 minutes on this question.			those in <b>Figure 1</b> .	for a new sustainable forest logo	o with similar
1 F	aper and board can be made from trees grown in sustainable forests.					
(	Explain, in detail, the term <i>sustainable forest</i> .					
		(3 marks)				(5 marks)
(	A logo on a product made of material from a <i>sustainable forest</i> is shown in <b>Figure 1</b> .			r best ideas from part (c)(i) w logo in the space below.	above, produce a final presenta	ation drawing
	This design has <b>two</b> design features. Study each feature and comment on its suitabilit this environmental logo.	ty for	Figure 1			
	Feature 1: arrows					
		(3 marks)				
	Feature 2: representation of trees					(6 marks)
					vement on <b>Figure 1</b> .	
		(3 marks)				
						22
		Shee	:1			Turn over

Question 2 is about market researching and representing data and is worth 13 marks.

You are advised to spend about 10 minutes on this question.

2 A school wants to raise money by selling recordings of music performed by its students.

The Graphic Products department is to produce high quality packaging for the recordings.

To find out which recording format would be preferred, a questionnaire was sent to parents and students.

The results of the questionnaire are shown in the table opposite.

This data is to be shown as a pictograph.

(a) Give an advantage of using a pictograph to represent data.

(b) Complete and colour the pictograph (Figure 2) using the data in the table below.

Each symbol in the pictograph represents 10%.

Marks will be awarded for:

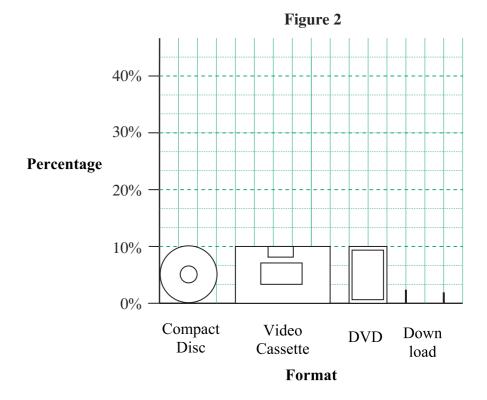
(2 marks)

(i) accuracy of data (4 marks)

(ii) use of symbols (4 marks)

(iii) quality of colouring. (3 marks)

Key	Format	Percentage
0	Compact Disc	40%
	Video Cassette	20%
	DVD	30%
	Download	10%



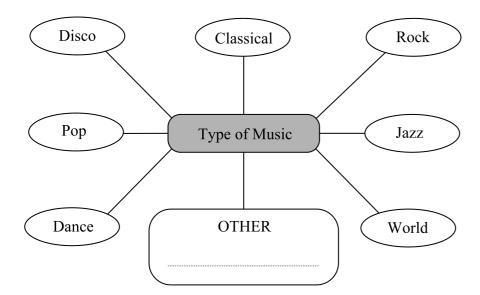
13

Sheet 2 Turn over ▶

Question 3 is about typography and is worth 11 marks.

You are advised to spend about 10 minutes on this question.

- 3 The questionnaire showed that a Compact Disc (CD) was the preferred format for the school recording.
  - (a) Study the ideas web below showing different types of music.



(i)	Choose a type of music to be included on the school's CD. (If your favourite music is not listed, add it under OTHER.)	
		(1 mark)
(ii)	Choose a suitable name for the school's CD. The name should be one or two words long, and will be printed on the front of the CD cover.	
		(1 mark)

Letter style 1	
>	
Letter style 2	
>	
Letter style 3	
	(6 mark
My best letter style is number:	
This letter style will be used in Question 4.	
Explain why your best letter style is suitable for the CD.	
	•••••

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Sheet 3 Turn over ▶

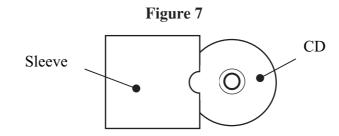
This question is about developing a design and a presenta	ation drawing and is worth 25 marks.			
You are advised to spend about 25 minutes on this question	on.			
<ul> <li>4 The CD is packaged in a card sleeve (Figure 3).</li> <li>(a) (i) Sketch the development of a design for the music chosen in Question 3 (Figure 4 and (ii) Comment on your development.</li> <li>(b) (i) Produce a coloured presentation drawing a Include the name and letter style chosen in (ii) Evaluate your presentation drawing.</li> </ul>	of your final design ( <b>Figure 6</b> ).  n Question 3.	(7 marks) (3 marks) (12 marks) (3 marks)	Figure 3  Figure 6  (b) (i) Presentation drawing	
Figure 4	Figure 5			
(a) (i) First design	Improved design			
(a) (ii) Comment on your development			(b) (ii) Evaluate your presentation drawing	
				<u></u>
		Sheet 4		Turn over

Turn over

This question is about surface development (net) and dimensioning and is worth 18 marks.

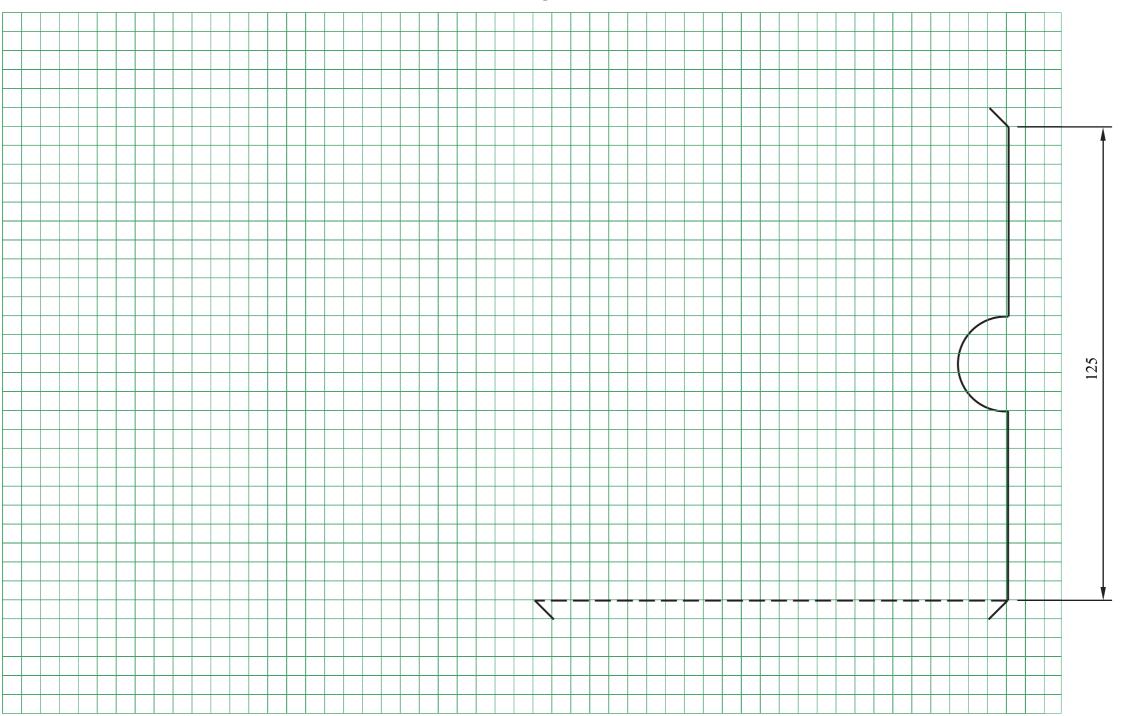
You are advised to spend about 20 minutes on this question.

5 The CD is packaged in a folded card sleeve (**Figure 7**). The sleeve is cut from one piece of thin board measuring 250 mm by 155 mm.



- (a) Complete the *full size* surface development (net) of the sleeve (**Figure 8**) using the given key. Include glue tabs 15 mm wide. (12 marks)
- (b) Using the same style as the given dimension add **two** more sizes to the surface development.
- (c) Complete the scale (**Figure 9**). (1 mark)

Figure 8



 Key

 Cut line

 Fold line

Sheet 5

Figure 9

Scale \_\_\_\_ : \_\_\_\_

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Turn over ▶

(5 marks)

This question is about the order of making and is worth 20 marks.

You are advised to spend about 20 minutes on this question.

- 6 The CD's card sleeve is to be made in the school's graphics studio.
  - (a) Study the stages (A to F) for making a prototype sleeve. They are **not** in the correct order.

	Stages
A	Cut out the shape
В	Crease the fold lines
С	Apply coloured image

	Stages					
D	Apply glue					
Е	Assemble the sleeve					
F	Draw surface development					

(i) Complete the table below to show the correct order for making a successful model.

(4 marks)

(ii) Name a tool or piece of equipment used at each stage in the order of making.

(4 marks)

Order of Making	Stage	Tools or Equipment Used
1	F	A pencíl
2		
3		
4		
5		
6	Е	Paper clips to hold glued surfaces

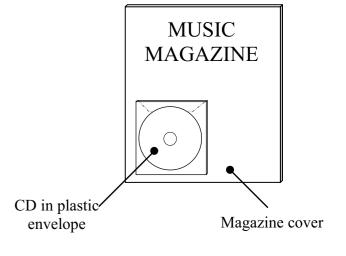
(b)	(i)	After which stage would you do a Quality Control check?	
		Stage	(1 mark)
	(ii)	What would you check and why would you check this?	
			(3 marks)
	(iii)	How would you do this check?	
			(2 marks)
(c)	Exp	lain 'Stage A – Cut out the shape' with sketches and notes.	
	\		
			(6 marks)

A	mock i	up CD sleeve can be made in a school's graphics studio.	
(a)	Wha	at is a <i>mock up</i> ?	
<b>4</b> 1.			(3 marks)
(b)		CD sleeve is made from 200 gsm thin board.	
	(i)	Give the full meaning of 200 gsm.	
			(3 marks)
	(ii)	What would be the effect of using recycled board for the CD sleeve?	
			(2 marks
	<b>/***</b> \		(2 marks)
	(111)	When felt-tip pens are used on some kinds of paper the colour can 'bleed'. Explain the term 'bleed'.	

(c) CDs are often given away with magazines.

The diagram opposite shows a CD in a plastic envelope which is fixed to a magazine cover.

Using notes and sketches show how the CD could be attached to the magazine.



(6 marks)

# END OF QUESTIONS

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