

Product Design

Aptitude Examination Paper Time allowed: 1 hour

Instructions

Use blue or black ink or ball-point pen. Use pencil and coloured pencils only for drawing. Answer *all* questions in the spaces provided.

All working must be shown.

Do all rough work in this book. Cross through any work you do not want marked.

Information

The maximum mark for this paper is 56.

Mark allocations are shown in brackets.

Wherever calculations are needed you should show your working.

You are reminded of the need for good English and clear presentation.

Name:	
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In addition to this paper you will require:

- a pen, pencil, ruler, eraser, pencil sharpener and coloured pencils;
- an insert of colour photographs (enclosed).

For Examiner's Use		
N0.	IO. Mark Mark Available	
1		32
2		13
3		11
Total		56

Section A

Answer all questions in the spaces provided.

Question 1 is about designing.

You are advised to spend about 35 minutes on this question.

1 The products shown below all belong to the Memphis design movement.



(1 mark)

Name the product you are going to design.			
In the table below give three <i>different</i> design criteria which will make your product suitable for the user.			
Give one reason for each design criteria. An example is given for you.			
Example Design Criteria	Reason		
Should be hard wearing.	So that it stands up to everyday use and does not break easily.		
	1_		
Your Design Criteria	Reason		
1			
2			
3			

1 (b) You are going to create a design for a product for a child in the under-seven age

range. This product must be based on the Memphis style.

Question 1 continues on the next page

(6 marks)

The products shown below all belong to the Memphis design movement.

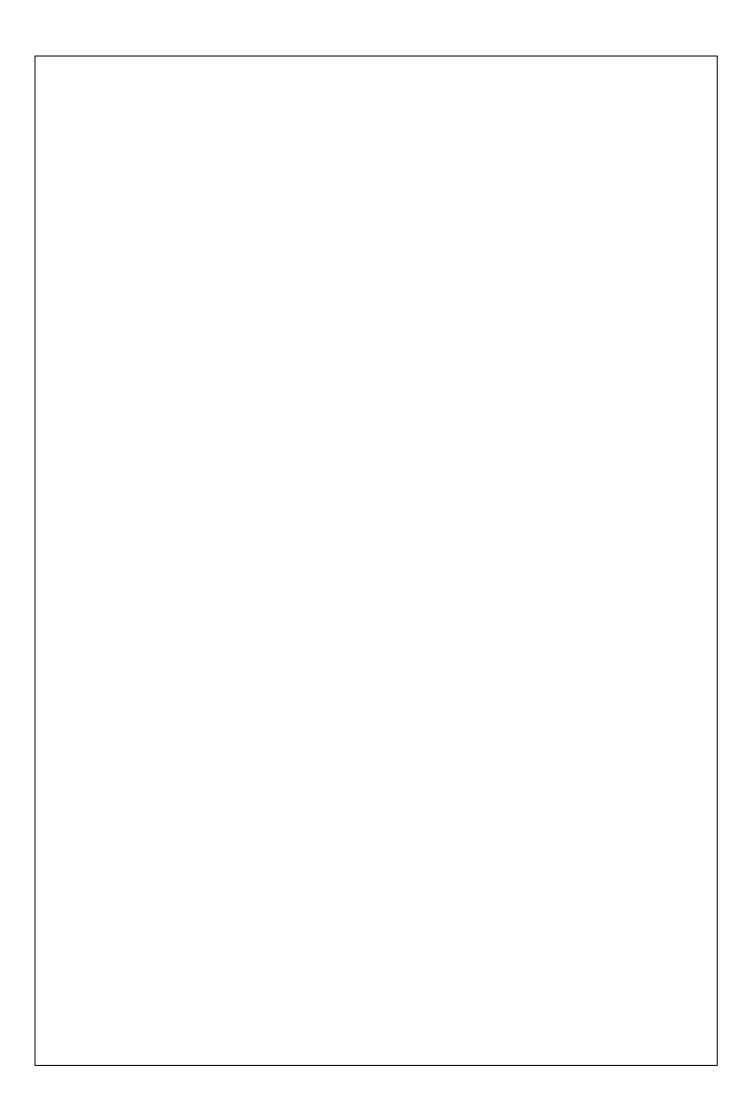


1 (c) In the space below and opposite, develop a design for the product you named in part (b). You should show enough detail for somebody else to be able to make it.

There are marks for:

- #how well your design links to the Memphis style
- #originality of ideas
- *materials and construction techniques
- *how well you communicate your design.

 now well you communicate	e your design.		



(d) U	Ising your design criteria you gave in part (b), evaluate how your design is suitable or a child under seven .
•	
• •	
-	
• •	
•	
•.	
••	
••	
•	(6 marks)

Section B

Answer all questions in the spaces provided.

Question 2 is about materials.

You are advised to spend about 15 minutes on this question.

2 (a) Complete the table below.

You should:

- #identify a specific material which comes from each of the sources
- #tick whether the material is renewable or non-renewable
- #name a product made from the material.

An example is given for you.

Source	Specific material	Renewable	Non-renewable	Product
The Earth and rocks	Aluminium		/	Ladder
Oil				
Plants and trees				
Animals				

(9 marks)

Question 2 continues on the next page

2 (b) (i) Name either a new or a smart material.
(1 mark) 2 (b) (ii) Describe the properties of the new or smart material you have named in part (i). Explain how it could be used in a product.
(3 marks)

You are advised to spend about 10 minutes on this question.
3 (a) Using examples, explain what is meant by brand identity.
(4 marks)

Question 3 is about product marketing.

Question 3 continues on the next page

3 (b) (i) Manufacturers market their products through advertising.
Name three different methods of advertising.
1
2
3
(3 marks)
3 (b) (ii) Choose one of the methods you have named in part (i).
Explain how this method of advertising persuades consumers to buy the product.
Use examples of products in your answer.
(4 marks)