INSTRUCTIONS TO CANDIDATES

• Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
• Use black ink. HB pencil may be used for graphs and diagrams only.
• This paper contains two questions – you are to answer both questions.
• You are advised to spend 30 minutes on each question.
• Read each question carefully. Make sure you know what you have to do before starting your answer.
• Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
• You may use annotated sketches to support your written answer.
• Do not write in the bar codes.

INFORMATION FOR CANDIDATES

• The number of marks is given in brackets [ ] at the end of each question or part question.
• You should have the Workbook that you produced in sessions 1 and 2 to assist you during this paper.
• The total number of marks for this paper is 20.
• This document consists of 8 pages. Any blank pages are indicated.
1 Sustainability is an increasingly important issue for designers; the local council is keen to raise environmental awareness among its visitors.

Prepare a discussion about your product that reflects on environmental and social issues.

You should include:

- Modifications that you would make to your product to make it more environmentally friendly and sustainable.
- Consideration of the Life Cycle Analysis of your product.
- Details of specific manufacturing processes and technologies that can be used to improve your product's environmental impact. [10]
Aesthetics is an important factor for any designer to consider when a product is designed to be used in a public space.

Prepare a discussion that reflects on your product and considers its suitability for use in a town centre.

You should include:

- Details of the aesthetic qualities of your product and how this will fit into a town centre environment.
- Any modifications you could make to your product to improve its aesthetics.
- Details of any specific materials and manufacturing methods that would be used for these modifications.