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Design & Technology AQA GCSE

Environment

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- For the multiple choice questions, circle your answer

Advice

- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

Good luck!

Q1. Which	one of the following statements is true?
Α	Batteries can be safely thrown away with household rubbish
В	Rechargeable batteries can only be used ten times
С	Zinc carbon batteries leak and corrode
Q2. Which	one of the following statements is true?
Α	Continuous improvement is the concept of storing waste
В	Global warming is due to decreasing levels of carbon dioxide
С	Pollution is created by the burning of fossil fuels
	one of the following has a positive impact on the environment?
A	Global warming
В	Pollution
С	Reducing waste
Q4. Which of these is the most effective strategy for manufacturers to reduce environmental impact?	
Α	Implementing a continuous improvement system for sustainability
В	Offsetting pollution by planting trees
C	Using slightly less packaging than before

Q5. Analyse and evaluate how global warming concerns are affecting product design and manufacturing processes. Use examples where appropriate (4 marks)	

Answers

Q1. C

Q2. C

Q3. C

Q4. A

Q5.

Award 1 mark for each valid point up to 4:

- Material changes Shift to biodegradable/recycled materials (e.g., Adidas using ocean plastic in shoes)
- **Energy efficiency** Renewable energy in factories (e.g., Tesla's solar-powered Gigafactories)
- Waste reduction Circular economy principles (e.g., Philips' lighting-as-a-service model)
- **Transport impacts** Localized production (e.g., 3D printing spare parts on-demand)