# Design & Technology AQA A-Level

# Paper and board printing processes

# 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. What are the four colours used in offset lithography printing?		
Α	Cyan, red, yellow and black	
В	Cyan, magenta, yellow and black	
С	Blue, magenta, yellow and black	
Q2. When p	orinting commercially, what is a registration mark used for?	
Α	To check alignment of paper during print process	
В	To show where to cut paper after print	
С	To indicate that a registered trademark logo has been used	
Q3. Which of the following is most suitable for batch process?		
Α	Offset lithography	
В	Flexography	
С	Screen printing	
Q4. Offset lithography is a process used in which scale of production?		
Α	Mass production	
В	Continuous production	
С	Batch production	

our answer <b>(5 m</b> a	arks)

Q7. Explain two advantages of flexographic printing (2 marks)			

### **Answers**

**Q1**. B

**Q2**. A

**Q3**. C

**Q4**. A

# Q5.

Digital printed image

- Full colour digital images or photographs can be printed on to a substrate before application allowing for corporate logos and pictures to be featured.
- Large format prints can be created and scaled for a variety of sized vehicles.
- One large self-adhesive feature is easier to apply and ensure that it is square and in line with the vehicle panel.
- Digital printing requires costly machinery which can make the process prohibitive for smaller companies.
- Digital printing has limited UV resistance so may fade quickly and lose its visual impact.

# Q6.

An outline covering five of the following:

- Material to be printed placed on base (1)
- Template made from card with required design placed on top of material (1)
- Screen placed on top of template, made from stretch nylon fabric and wood frame (1)
- Ink squeezed onto nylon fabric (1)
- Rubber blade spreads ink out and push through fabric and template onto material (1)
- Printed pattern can now be seen on material (1)

# Q7.

Any two from:

- Economic on long print runs (1)
- Fast (1)
- Low maintenance cost, low breakdown rate (1)
- Can be combined with web-fed systems which is much cheaper and faster than sheet fed (1)

• Fast drying inks (1)