

Design & Technology

A-Level

Printing

Multiple Choice

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
- Use a cross in the box to mark you 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. Offset lithography is a process used in which scale of production?

A mass scale

☐

B continuous

☐

C batch

☐

Q2. What are the four colours used in offset lithography printing?

A cyan, red, yellow and black

☐

B cyan, magenta, yellow and black

☐

C blue, magenta, yellow and black

☐

Q3. When printing commercially, what is a registration mark used for?

A To check alignment of paper during print process

☐

B To show where to cut paper after print

☐

C To indicate that a registered trademark Logo has been used

☐

Q4. Which of the following is most suitable for batch process?

A offset lithography

☐

B flexography

☐

C screen printing

☐

Q5. Which of these is a characteristic of gravure printing

A cheap set up cost

☐

B short print runs

☐

C quick print times

☐

Q6. Give three reasons why the use of biodegradable ink, is beneficial when printing on packaging. **(3 marks)** – technology student new paper 3 – needs rewording

Reason 1:

Reason 2:

Reason 3:

Q7. Explain the screen printing process. Include both notes and sketch(s) in your answer **(5 marks)**

Q8. Explain 2 advantages of flexographic printing (2 marks)

Answers

Q1. A

Q2. B

Q3. A

Q4. C

Q5. C

Q6.

Any three from:

- Less likely to smudge
- Do not contain toxic elements
- Do not smell as they are not mineral based
- Completely safe and do not require safety labelling
- Less ink required as they flow more efficiently than conventional inks
- More vivid/stronger colours

Q7.

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

Q8.

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