**Design & Technology**

**AQA GCSE** Logo

Description automatically generated with low confidence

**People**

**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.** ‘Technology push’ describes when products are developed

**A** Due to improvements in new materials

**B** Due to increased consumer demand

**C** In response to consumer feedback

**Q2.** Which scenario exemplifies "market pull"?

**A** A pharmaceutical company developing mRNA technology

**B** Consumers demanding longer smartphone battery life

**C** Engineers creating a more efficient solar panel

**Q3.** How did the rise of cloud computing most significantly change IT job roles?

**A** Eliminated all programming jobs

**B** Shifted focus from hardware maintenance to cloud architecture

**C** Made on-premise servers more important

**Q4.** Which factor most complicates workforce adaptation to technological change?

**A** Skills becoming obsolete faster than education systems can adapt

**B** The predictable pace of innovation

**C** Consistent demand for legacy skills

**Q5.** Explain how technological changes can create both new job opportunities and job losses in an industry. Use examples to support your answer **(4 marks)**

**Answers**

**Q1**. A

**Q2**. B

**Q3**. B

**Q4**. A

**Q5.**

* Job losses identified (e.g., automation replaces routine tasks)
* Job opportunities identified (e.g., new tech creates demand for skilled roles)
* Example given for job loss (e.g., self-checkouts reducing cashier jobs)
* Example given for job creation (e.g., AI trainers needed for machine learning systems)