

3.4 Genetic Modification & Biotechnology

Question Paper

Course	DP IB Biology	
Section	3. Genetics	
Торіс	3.4 Genetic Modification & Biotechnology	
Difficulty	Easy	

Time allowed:	10
Score:	/5
Percentage:	/100



Question 1

Which option correctly completes the sentence below?

In gel electrophoresis, DNA moves towards the _____.

- A. Cathode
- B. Negatively charged electrode
- C. Anode
- D. Tiny pores in the gel

[1mark]

Question 2

Which of the following processes takes place in a thermal cycler?

- A. Genetic modification
- B. Polymerase chain reaction
- C. Gel electrophoresis
- D. Genetic fingerprinting

[1mark]

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Question 3

With reference to the DNA profile shown, which two individuals are the parents of child X?

Child X	Individual 1	Individual 2	Individual 3

A.1and3

B.1and2

C.2 and 3

D. Individual 1 (only one parent is shown)

[1mark]

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Question 4

Which row correctly labels letters X, Y and Z in the diagram of genetic modification shown?

Maize cell and bacterial DNA

	X	Y	Z
Α	Transgenic organism	Vector	Recombinant DNA
В	Recombinant DNA	Transgenic organism	Vector
С	Recombinant DNA	Vector	Transgenic organism
D	Required gene sequence	Recombinant DNA	Transgenic organism

[1 mark]

Question 5

Which of the following gives an example of artificial cloning?

- A. Production of runners
- B. Somatic cell transfer
- C. Monozygotic twins
- D. Parthenogenesis

[1 mark]