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## **CHAPTER 3: HEREDITY AND VARIATION**

Refer to Figure 3.22 in the NEXUS Science SPM

		[1 mark]
(b)	The non-identical twins have different sets of chromosomes and genes. Explain	ı this.
		[1 mark
(c)	The placenta contains blood vessels from the mother and the foetuses. State <b>tw</b>	0
	advantages of this arrangement.	
	1	
	2	
		[2 marks]
(d)	State the possible sex for non-identical twins.	
		[1 mark

- 2 Chee Wah and Chee Meng are non-identifical male twins. How were they formed?
  - **A** Two ova were fertilized by two sperms bearing Y chromosomes.
  - **B** Two ova were fertilized by two sperms bearing X chromosomes.
  - C Two ova were fertilized by the same sperms.
  - **D** Both twins originated from the same zygote.

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## **NEXUS SPM SCIENCE** FORMS 4 & 5

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Its been reported in March 2007 that doctors in Washington, U.S.A. have identified for the first time a pair of 'semi-identical' twins, produced by two sperm cells fused with one egg cell.

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