1.	The statements below relate to the epigenetic regulation of gene expression.							
	Which of the following statements is/are correct?							
	1	Methylation of DNA prevents gene transcription.						
	2	The most common base to undergo methylation is guanine.						
	3	Acetylation of histone proteins causes DNA to become less accessible to transcription factors.						
	Α	1, 2 and 3 are correct						
	В	Only 1 and 2 are correct						
	С	Only 2 and 3 are correct						
	D	Only 1 is correct						
	Υοι	ır answer	[1]					
2.	ich of the statements, A to D, is true of epigenetics?							
	Α	Guanine is the most commonly methylated DNA base.						
	В	Identical twins show identical epigenetics.						
	С	Proteins cannot undergo epigenetic modification.						
	D	Some epigenetic changes can be reversed.						
	Υοι	ur answer		[1				

## **END OF QUESTION PAPER**

## **Mark Scheme**

Question		1	Answer/Indicative content	Marks	Guidance
1			D ✓	1	Examiner's Comments This question was more demanding as candidates had to identify which of three statements were correct. Encouragingly more than 50% of candidates chose the correct option on this challenging area of biology.
			Total	1	
2			D	1	Examiner's Comments  Only the more able candidates were able to select D as the correct response.
			Total	1	