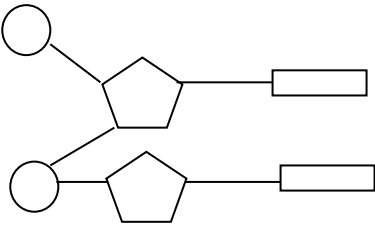


Question number	Answer	Mark
4(a)	<p>A description that makes reference to the following points:</p> <ul style="list-style-type: none"> DNA double versus RNA single-stranded (1) DNA contains thymine while RNA contains uracil (1) DNA contains deoxyribose while RNA contains ribose (1) 	3

Question number	Answer	Mark
4(b)	<p>A drawing that includes:</p> <ul style="list-style-type: none"> organic bases attached to correct position on ribose (1) phosphate attached at C3 and C5 (1) 	3

Question number	Answer	Additional guidance	Mark
4(c)(i)	<p>Process:</p> <ul style="list-style-type: none"> 37% must be thymine (1) $100 - (2 \times 37) = 26\%$ must be guanine (G) and cytosine (C) (1) so guanine = $26 \div 2 = 13\%$ of nucleotides (1) 	allow 3 marks for correct final answer	3

Question number	Answer	Mark
4(c)(ii)	<p>An explanation that makes reference to the following points:</p> <p><i>muscle cell</i> adenine 37%/same amount as cheek cell (1) because genetically identical to cheek cell (1)</p> <p><i>red blood cell</i> adenine 0% (1) no nucleus (1) DNA in nucleus/no DNA (1)</p>	5

Question number	Answer	Mark
4(d)	D	1

Total for Question 4 = 15 marks