#### QUESTION 2

2.1	2.1.1	(a) DNA / (b) Ribosome /	(1) (1)
	2.1.2	(a) G / (b) U /	(1) (1)
	2.1.3	<ul> <li>DNA codes for a particular protein but cannot leave nucleus</li> <li>One strand of DNA is used as a template</li> <li>to form mRNA</li> </ul>	(3)
	2.1.4	<ul> <li>According to the codons on mRNA</li> <li>tRNA molecules with matching anticodons</li> <li>bring the required amino acids to the ribosome</li> <li>This is called translation</li> <li>The amino acids become attached by peptide bonds</li> <li>to form the required protein</li> </ul>	(4)
	2.1.5	Methionine, <pre> Glycine, </pre> Arginine (in the correct order)	(3) (14)
2.2	2.2.1	H. erectus✓	(1)
	2.2.2	A. afarensis	(1)
	2.2.3	(a) 3 mya − 2,4 ✓ mya = 0,6 ✓ my✓ OR 3 mya − 2,3 ✓ mya = 0,7 ✓ my✓	(3)
	224		(1)
	2.2.4	(a) H. neanderthalensis√	(1)
		<ul> <li>(b) H. neanderthalensis and H. sapiens share a common√ ancestor√</li> <li>OR</li> </ul>	(2)
		Both evolved√ from H heidelbergensis√	(2) (9)

# Life Science P2 November 2014 Memorandum

Joacim Rocklöv

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