

GCSE Biology B (Twenty First Century Science)

J257/01 Breadth in Biology (Foundation)

Question Set 22

Multiple Choice Questions

		Tongue rolling is inherited.						
	 The allele for tongue rolling is represented by R The allele for non-tongue rolling is represented by r. 							
(a)	(i)	Jack's genotype is RR .						
		Which two words can be used to describe Jack's genotype?						
		Put a ring around the two correct answers.						
		dominant	heterozygous	homozygous	recessive	[2]		
	(ii)	Jack's friend is una	able to roll their tongue) .		[2]		
		What will their genotype be?						
		Tick (✓) one box.						
		RR						
		Rr						
		XX.						
						[1]		
	(iii)	A male with the genotype Rr and a female with the genotype Rr have a baby.						
		Complete the Punnett square to show how the male and female can have a baby that can roll its tongue.						
		State the probability of the baby being able to roll its tongue.						
				Probability	=	[3]		

1.

(b)		What word is used to describe the physical features observed as a result of genes?						
		Put a round the correct answer.						
		allele enviro	onment	phenotype	[1]			
(c)	(i)	?	1.1					
		Tick (✓) one box.						
		The chromosomes inl	herited from the mothe	r.				
		The DNA found in the	sperm cell.					
		The entire genetic ma	aterial of an organism.		[1]			
	(ii)	Where is DNA stored in an animal cell?			1.1			
		Tick (✓) one box.						
		Chloroplast						
		Cytoplasm						
		Nucleus			[1]			

Total Marks for Question Set 22: 9



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