## PRINCIPLES OF INHERITANCE AND VARIATION

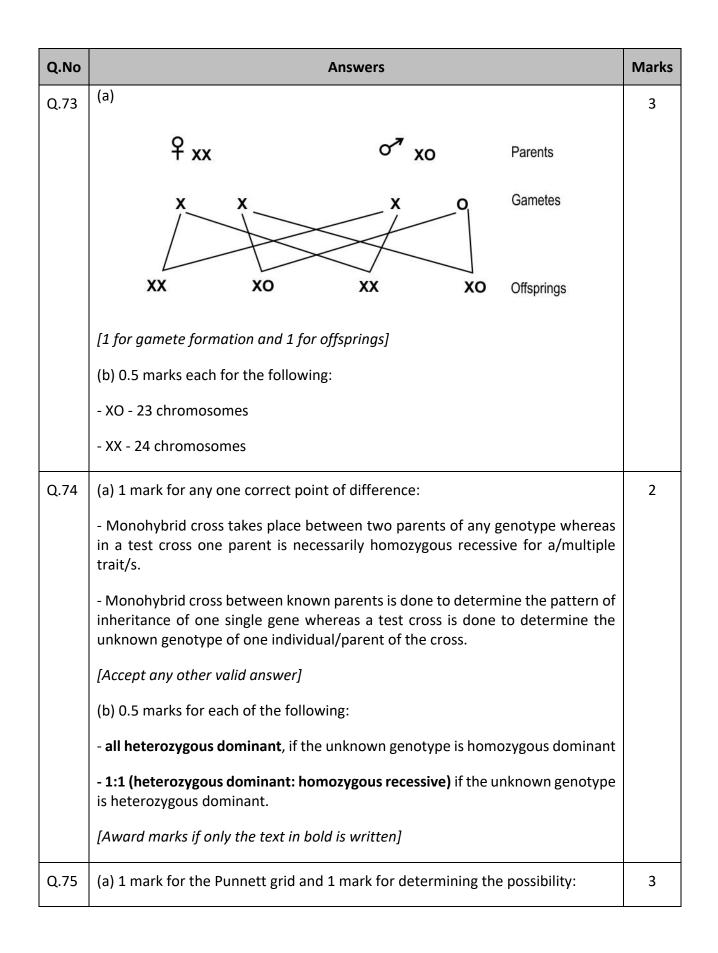
Q.No	Question	Marks
Free Response Questions/Subjective Questions		
Q.73	Sex determination in cockroaches is the same as that seen in some other insects like grasshoppers.	3
	(a) Illustrate a cross between a female (XX) cockroach and a male (XO) cockroach.	
	(b) What will be the chromosome number of the off springs formed, if the number of autosomes is 22?	
Q.74	(a) State ONE point of difference between a monohybrid cross and a test cross.	2
	(b) What is/are the possible genotypic ratio/s in a test cross?	
Q.75	ACHOO syndrome is characterized by uncontrollable sneezing in response to the sudden exposure to bright light, typically intense sunlight. It is inherited as an autosomal dominant condition.	3
	(a) Draw a Punnett grid to determine the probability of producing an unaffected child by a heterozygous father and an unaffected mother.	
	(b) Depict the inheritance using a pedigree.	

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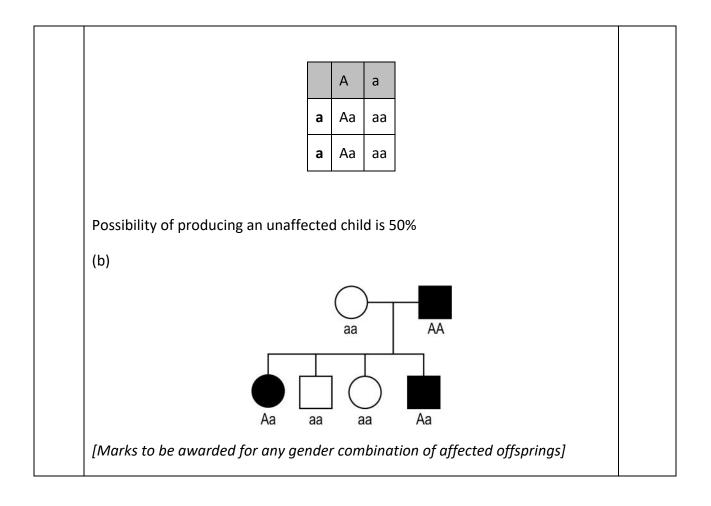


## **Answer key and Marking Scheme**









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