Q.P. Code:09340

	[Time: 3 Hours]	[Marks:75]
	Please check whether you have got the right question paper	er.
	N.B: 1. Attempt all questions.	
	Figures to the right indicate full marks.	
	Draw neat and labelled diagrams wherever required.	
Q.1	With reference to cell division explain Mitosis.	15
2	OR Discuss properties of genes and gene enzyme relationship.	08
	Describe polytene chromosomes.	07
Q.2	Explain chromosomal theory of linkage.	15
	OR	
	Discuss Gynandromorphy in Drosophila.	08
D	Describe multiple alleles.	07
Q.3	Describe horse evolution.	15
	OR	
	Discuss calculating allelic frequencies.	08
D	Describe continuous variation.	07
Q.4	Describe pattern formation and development. OR	15
a	Discuss hormonal control of insect metamorphosis.	08
	Describe factors affecting cellular differentiation.	07
Q.5	Write short notes on any three:-	15
	a. Monohybrid cross	
	b. Co dominance	
	c. Natural Selection	
	d. Totipotency	
	OR Write short notes on any three:	15
	Write short notes on any three :- a. Spermatogenesis	13
	b. SRY genes	
	c. Neanderthal Man	
	d. Cadherins	