Model Question paper Genetics (Z) 1

11th Standard

	Biology Reg.No.:	
	I. Answer all the questions.	
	II. Use blue pen only.	
Ti	ime : 00:45:00 Hrs	Total Marks: 30
	Part - A	6 x 1 = 6
1)	The number of chromosomes in the body cell of Drosophila is	
	(a) 6 pairs (b) 4 pairs (c) 8 pairs (d) 23 pairs	
2)	The gamete that is responsible for the formation of male sex is	
	(a) Egg cell with X-chromosome (b) sperm cell with X-chromosome (c) sperm cell with XY-chromosome (d) sperm cell with Y-chromosome	
3)	Sex determination by environment can be seen in	
	(a) Drosophila (b) Bonellia (c) Vertebrates (d) Honey bees	
4)	Which of the following is the X-linked character?	
	(a) Eye colour in Drosophila (b) Skin colour in man (c) Skin colour in Rabbit (d) Wings of Drosophila	
5)	ABO blood group in man is an example for	
	(a) Pleiotropism (b) multiple allelism (c) x - linked inheritance (d) y - linked inheritance	
6)	Rh. factor in blood was discovered by	
	(a) Galton (b) Davenport (c) Landsteiner and Wiener (d) Clarence Mc Clung	
	Part - B	5 x 2 = 10
7)	What are multiply alleles?	
8)	Mention the possible genotypes of the offsprings if the parental blo <mark>od groups a</mark> re B and B.	
9)	What is the cause for the death of a child in erythroblastosis fetalis?	
10	0) What was the opinion of biometricians in genetics	
11	1) Who are mulattoes?	
	Part - C	3 x 3 = 9
12	2)What will be the nature of the F ₂ progeny, <mark>if a colo</mark> ured rabbit is cross <mark>ed with a</mark> n alb <mark>ino?</mark>	
13	3) Discuss how 'O' blood group is considered as an universal donor.	
14	4) What is erythroblastosis fetalis?	
	Part - D	1 x 5 = 5
15	5) Explain genic balance mechanism of sex determination	