Model Question paper Genetics (Z) 3

11th Standard

	Biology	Reg.No.:	l				ĺ
	I. Answer all the questions.						
	II. Use blue pen only.						
Tir	ne : 00:45:00 Hrs			To	otal N	Marks	3:30
	Part - A					6 x 3	1 = (
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	mosome					
3)	Holandric genes are genes.						
	(a) X-linked (b) Y-linked (c) Autosomal (d) Multiple						
4)	The hereditary disease that affect the red blood cells of human beings is						
	(a) Sickle cell anaemia (b) Phenylketonuria (c) Haemophilia (d) Achromatopsia						
5)	The type of sex determination in moths and butterflies is						
	(a) XX-XO type (b) XX-YY type (c) ZO-ZZ type (d) ZW-ZZ type						
6)	Holandric genes occur exclusively on						
	(a) X-chromosomes (b) Y-chromosomes (c) autosomes (d) both X and Y chromosomes						
	Part - B					5 x 2	= 1
7)	Mention the possible genotypes of the offsprings if the parental blood groups are B and B.						
8)	What was the opinion of biometricians in genetics						
9)	Who are mulattoes?						
10	What is arrhenotokus parthenogenesis?						
11	Provide the genotypes for himalayan albino rabbits						
	Part - C					3 x 3	3 = 9
12) What will be the nature of the F ₂ progeny, <mark>if a colo</mark> ured rabbit is crosse <mark>d with a</mark> n albino?						
13) What is erythroblastosis fetalis?						
14	Provide an account on Turner's syndrome and Klinefelter's syndrome.						
	Part - D					1 x !	5 = 5
15	Explain genic balance mechanism of sex determ <mark>ination.</mark>						
