## **Model Question Paper**

Modern Genetics - Part II

	12th Standard				
	Biology	Reg.No. :			
	I.Answer all the questions. II.Use Blue pen only. III.Question No 20 is compulsory. ne: 01:00:00 Hrs		Tot	al Mar	rks : 60
HIN	Section-A		100		x 1 = 5
1)	The Tecnique of separating complete set of chromosomes from cells is known as			J	X1-3
-,	(a) Karyotyping (b) Karyogram (c) Idiogram (d) Immunogram				
2)	The chemical used to stop the mitosis is at metaphase				
-,	(a) colchine (b) colchicine (c) colamide (d) bromide				
3/	The nutritive solution which is used for culture of foetal cells is				
٥,	(a) Phytohaemarrage (b) Phytohaematin (c) Phytohaemaonin (d) Phytohaemagglutinin				
۵)	The 4 and 5 chromosomes of human Karyo typing are of this type				
٦,	(a) metacentric (b) submeta centric (c) acrocentric (d) acentric				
5)	The Karyotyping method which is used to identity the sex of individuals during pregnancy is				
٥,	(a) allantocentric (b) chromocentesis (c) aminocentesis (d) utero centesis				
	Section-B			0 v	(3 = 27
6)	Write a note on SCID (or) Bubble boy syndrome.			3 1	. 3 – 21
	Name a few genetic diseases found in human.				
	What is proteomics?				
	What is cloning?				
	) What are the benefits of cloning?				
	Write any three demerits of cloning.				
	) What is Totipotent?				
13)	What is transfection (or) transfected cell?				
14)	Mention uses of transfection (or) transfe <mark>cted cell</mark> .				
	Section-C			5 x	c 5 = 25
15)	Explain the method of preparing human karyogram. (or) Explain the method of preparing karyogram and its uses.				
16)	Explain karyo typing of human chromoso <mark>mes (or) Write</mark> about seven groups of chromosomes in human.				
17)	Write the use of Bioinformatics.				
18)	Write about any three Genetic diseases in human.				
19)	Write the significance and benefits of Human Genome Project.				
	Section-D			1 x 1	10 = 10
20)	a) Write an essay on bioinformatics.				
	(OR)				
	b) Write an essay on protein structure and protein model and its uses.				

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