					39			
Sig	of Sup	odt	KT-XII-10 BIOLOG (Part - 1 (Frish / New G	601 (*) GY (*) H)	Roll No			
					-9		٠	
					Fic. #			•
•	•							•
			*					-
							•	
		:			Fic. #		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•
Tota	al Marks	s: 85	BIOLOG	ŝΥ		Γime	Allowed: 3 Hrs	
			(Part - I		•	•		
			(Fresh / New C				1	
Mar	ks: 18	•	Section "				Time: 20 Mins	
NO'	TE : Sei	ction-A is compulsory. A			inswered on the qu	estio	s paper itself. It	
shot	ald be co	ompleted in the given time is not allowed. Do not u	e and handed over to	the Cer	itre Superintendent	. Del	eting /	
J 7 G	-)TE: (nsert the correct	_	n tha am	• . into hos annasites	ta no	ch nart.	
. ·	1	•	•		•			
Q. 1		the correct option (a, b, c, d)				ries O	ie mark.	Б
	i)	The carpus luteum is foun			 Menstruation	(A)	Implantation	
		t r	(b) Ovulation			(d)	mpiantation	
	ii) .	All papillae on tongue con				(A)	Filliform	
	,,,,	``	(b) Foliate	_	Circumvallate	(d)	i iiiiiOIIII	Ь
	ii)	Skeletal muscle fibre may (a) Haemoglobin			xy haemoglobin	(d)	Carboxy haemog	
	iv)		pituitary gland is made			•	•	ط
	Ϊ)	(a) Anterior	(b) Posterior	(c)	Median	(d)	None of these	
	v)!	The protective coat which	surrounds the embryo	is				
			(b) Chorion		Allantoise	(d)	Yolk sac	
	vi)	Enzyme used to cut DNA				c.n	namana á	
			(b) Lysozyme		Lysosome	(d)	Restrictions enzy	·
	vii)	Fraternal twins result from						<u>b</u>
		(a) Two ova by one spe			Two ova by two sper			
	i.a.	(c) One ovum by two sp			One ovum by one sp			
	viii)	The type of gel most com				/ ₄ \	Polymerase	
		(a) Agarose	(b) Polyacrylamide	(C)	Ligase			C
	ix)	A pain disorder involving t	ne narrow muscle in in	ie pattock	is is Niewil as Diriformia pundrome:	141	Dienelin	لحكا
٠			(b) Arthritis		Piriformis syndrome	(u)	Disconh	
	x)	The Mid line of light band				(a)	T-tubules	
	. 41		(b) M-line		Z-line	(d)	r-tupties	1
	xi)	propose			Morana	(d)	Darwin	<u> </u>
	,,,,	(a) Lyn margulis		(c)	Morgan ,	(d)	Daiwiii	
	xii)	AIDS is caused by		101	Vinio	/Ai	Mosquito	لگ
			(b) Protozoan	(c)		(d)		C
	xiii)	By the process of division		s Suuciuli /^/	e is formed called Morula		Moroblastula	
	ade A		(b) Gastrula			(d)	invioniasinia	د
	xiv)	Chancre appears at the si	ite of pacterials invasio (b) Gonorrhae		Syphilis	/d\	Genetal herpes	
•	wa.	(a) AIDS Study of proper utilization						
	xv)	* * .			estic animais is callet Wild life managemer		**:***	
		(a) Animal husbandry (c) Livestock managem	eni		None of these		•	
	xvi)	4 O'Clock flower is the ex					•	
•	YAII		(b) Incomplete		CO-	(d)	Over	لك
	xvii)	Some cells of embryo gro			· · · · · · · · · · · · · · · · · · ·	(u)	J101	
	ANIIJ	(a) Umbilical cord			Morola	(d)	None of these	
	xvili)	The secondary Oocyte an	note in	(4)	ITIVIUI	(4)	TOTIC OF BIGGG	6
	ATIN	The accordant courte all	voga ili aanaanaanaan	1 - 4 *				

Total Marks: 67

Time Allowed: 2:40 Hrs.

Section - B

Marks: 40

Q.2 Write short answers of any TEN of the following parts. Each part carries equal marks.

- (i) Discuss sex linkage is Drosophilla.
- (ii) What are the signs and symptoms of Otitis Media?
- (iii) Write down a short note on Haemoglobin molecule.
- (iv) Write down a short note on osmoregulation in Marine animals.
- (v) Why insulin is so vital for survival?
- (vi) How a gene of Interest can be located in a DNA (Genomic) library?
- (vii) How multiplication rule is used in Genetics?
- (viii) Why it is important that the Corpus Luteum remains functional following implantation?
- (ix) How transgenic animals can be created?
- (x) Describe the structure of a gene.
- (xi) What is the role of microbes in waste treatment?
- (xii) What is ex-vivo and in-vivo mechanism of gene therapy?
- (xiii) Differentiate between Callus culture and protoplastic culture.

Section - C

Marks: 27

NOTE: Attempt any THREE questions. Each question carries equal marks.

- Q. 3 Discuss the process of protein synthesis (translation) in detail.
- Q. 4 Describe in detail the causes, sympstoms and treatment of Down's syndrome.
- Q. 5 What is multiple alleles? Explain this phenomenon with the help of ABO blood group system of human?
- Q. 6 Write note on any TWO of the following.
 - a) Types of muscles
 - b) Synapse
 - c) Thyroid gland