Dy. Supd LOGY T –II) ECTIV		· · · · · · · · · · · · · · · · · · ·	JTF		ective	Part)		
LOGY T –II) ECTIV	nt.	· · · · · · · · · · · · · · · · · · ·	JTFI			(☆ ☆ ☆)		
LOGY T –II) ECTIV	nt.			RMEDIATE)		(***)		
T –II) ECTIV		Fictit	ious l	Roll No. (For Office	Use)	_	S	Sign. Candidate
T –II) ECTIV	/			021/1	(\$	Smart Syllabu		
ECTIV	•	(INT	ERMEDIATE)	•	Ma	arks	: 17
	E PA	ART)		(***)		Ti	me	: 20 Minutes
	your	Roll No. in spac	Alla	ovided. Over writing	atten	npted.		
Each o	iuesti	ion has four po	ssib	le answers, lick	(V) the correct a	insv	ver. (17)
1				somes reaches to	C	Pachytene Pachytene	D	Zygotene
	A	Diakinesis	В	Diplotene		1		2,900.0
2	Insu	lin gene is locate		short arm of chro		11	D	19
	Α	7	В	9	С	11		
3	EcoF	R1 is used as; Vector	В	Expression system	С	Restriction enzyme	D	Gene of interes
		I di sill mough	200 4				h	
4		sh, the gill pouch		Pharynx	С	Eustachian	D	Fins
	A	Gills	В			tube		
5	All f		food	webs begin with;		Tertiary		
	Α	Primary consumers	В	Secondary consumers	С	consumers	D	Producers
6	In te	emperate grassla	inds.	the rate of primar	y pro	oductivity is ann	ualiy	,
	A	4000 g/m ²	В	700 – 1500 g/m ²	С	500 – 700 g/m ²	D	2000 – 2500 g/m²
7	The cause of stone cancer is;							
	A	Green house effect	В	Water pollution	С	Acid rain	D	Ozone depletio
8	Live	er synthesizes;			Т-			Bile
	Α	Iron	В	Glycogen	С	Glucose	D	L
9	ln ju	uxtamedullary ne	ephr	ons, addition capil				m;
	А	Peritubular capillaries	В	Vasa recta	С	Giomerulus	D	Loop of Henle
10							T	
	Α	Neck	В	Thorax	С	Pelvis	D	Lumber
11	The	e disease which	caus	es the fusion and		obility of vertebr	al jo	ints is;
	Α	Spondolysis	В	Sciatica	С	Rickets	D	Osteomalcia
12	Ch	emical nature of	insu	lin and glucagon i	s;			
	Α	Proteins	В	Amino acid derivatives	С	Steroids	D	Polypeptides
13	3 Germinating pollen grain is a rich source of;							
	Α	Ethene	В		C	Cytokinins	D	Auxins
14	In	chick, the egg is	ferti	lized as it passes	throu	ıgh its;		
	A	Shell gland	В		С		D	Liver
15								
	A	Fungus	В	Alga	С	Fern	D	Gymnosperr
16	A CA specifies:							
10	A	Phenylalanine		T	С	The same of the sa	D	Arginine
			500	netabolic activity i	n wh	ich cell grows in	size	is;

S

D

C

 G_2

PAPER: PART-II

MARKS: 68

TIME: 2:40 Hours

INTERMEDIATE

Note:- Attempt any TWENTY TWO (22) short questions in all selecting eight from Q. 2 and Q. 3 each and six from Q. 4. $(22 \times 2 = 44)$

SECTION - I

Write short answers of any eight questions. 2 $(2 \times 8 = 16)$

1	What do you mean by Homeostasis?	2	What are xerophytes? Write their adaptations.
3	Differentiate between Osmoconformers and Osmoregulators.	4	What are collenchyma cells?
5	What is ribcage?	6	Name the types of cells associated with bones.
7	What is menupause? At what age is starts?	8	Define parthenocarpy with examples.
9	What are planktons? Give their types.	10	What do you mean by taiga?
11	What is ozone layer? Give its advantage.	12	What is acid rain?

Write short answers of any eight questions. 3 $(2 \times 8 = 16)$

1	What are the commercial applications of Auxin?	2	What is Neuroglia? Give its role.
3	Name the Hormones secreted by pancrease and their role.	4	What is Gene linkage?
5	Define Gene and Locus.	6	What are Sex-linked traits?
7	Compare Ex-vivo gene therapy with invivo gene therapy.	8	What are three possible ways to get a gene of interest for gene cloning?
9	Discuss Sanger's Method of Gene sequencing.	10	Define ecosystem.
11	Write down the significance of Root Nodules in plants.	12	Define parasitism and give one example.

Write short answers of any six questions.

 $(2 \times 6 = 12)$

VI	ite short answers of any six qu	0000	
1	What are lateral meristems?	2	Explain regeneration in Salamander.
}	Name four types of Chromosomes.	4	What are Okazaki fragments?
5	What are non sense codons?	6	Write a note on Diakinesis.
7	What is Turner's Syndrome?	8	What is Genetic drift?
a	Explain Endosymbiont Hypothesis.		

Note: - Attempt any three questions.

 $(3 \times 8 = 24)$

5- (a)	Describe the role of liver as a major homeostatic organ.	(04)
J (W)		(04)

(b) Describe parasitic and mutualistic relationships in an ecosystem.

6- (a) Define Antagonism. Discuss the phenomenon with the example of

(04)elbow joint. (04)

(b) Define transcription. Discuss the detailed steps in prokaryotes. (04)7- (a) Explain Feedback Mechanism.

(04)(b) Write note on importance of Forests.

(04)8- (a) Explain about "Seed Dormancy".

(04)(b) Define and explain Mendel's Law of Segregation.

9- (a) What is regeneration? Explain it with the help of examples in different (04)groups of animals.

(b) Describe Biogeography and molecular biology as an evidence of evolution. (04)

(The End)