	No (To be filled in	n by the candidate)	
	(Academic Sessions 2017 – 2019 to 2019 – 2021	)	
	LOGY 221-(INTER PART – II)	Time Allowed: 2.40 ho	ours
PAPI	ER – II (Essay Type) GROUP – II	Maximum Marks: 68	
	SECTION – I		
	rite short answers to any EIGHT (8) questions:		16
	Differentiate between osmoconformers and osmoregulators.		
	Define uremia. What is its permanent treatment?		
	<ul><li>Define pyrexia and pyrogens.</li><li>Define Herniation of disc. How is it treated?</li></ul>		
	) Differentiate between bone and cartilage.		
	) Give two modifications in the exoskeleton of arthropods.		
	What is seed dormancy? Write its significance.		
	Write the functions of sertoli cells and interstitial cells.		
(ix	Characterize limnetic zone and profundal zone of fresh water lak	e.	
(x	Write down the name of two dominant plants and two dominant a	animals of	
	temperate deciduous forest.		
	What is nutrient cycle? What is driving force behind these cycles	s?	
(xii	Write four effects of removal of forests.		
	rite short answers to any EIGHT (8) questions :		16
	What condition result due to hypo and hyper function of cortical	hormones?	
	Write the actions of nicotine on nervous and circulatory system.		
(iv)	Define imprinting with the example of precocial birds.		
,	Differentiate between X-linked dominant and X-linked recessive Define monohybrids and dihybrids.	traits.	
(vi)	The state of the s	23	
, ,	What do you know about palindromic sequence? Give an example	le.	
(viii)	What are protoplasts? Give scientific name of biodegradable plas	stic.	
	Give the process of coronary artery angioplasty briefly, using biot		
	Differentiate between food chain and food web.	-	
	Define ammonification and nitrification.		
(xii)	State parasitism and its significance.		
4. Wr	ite short answers to any SIX (6) questions:		12
(i)	Define apical meristem.		
(ii)	What is inhibitory effect?		
(iii)	Define transcription.		
(iv) (v)	Differentiate between heterochromatin and euchromatin. What are three main components of a DNA?		
(vi)	Differentiate between leptotene and zygotene.		
. ,	Explain Turner's syndrome.		
	How genetic drift effect gene frequency?		
	What are homologous organs?		
	SECTION – II		
Note:	Attempt any THREE questions.		
	Explain the structure of nephron.  Describe predation and parasitism with their significance.		4
			4
	Write a note on sclerenchyma cells and collenchyma cells.		4
	Explain Watson and Crick Model of DNA.		4
7. (a)	What is resting membrane potential? How is resting membrane po	tential maintained	,
(b)	across neurolema?  Describe the importance of forests.		4
			4
	Describe fruit set and fruit ripening in angiosperms.	_	4
	What is X-linked recessive inheritance? Explain it with an example	e.	4
	Describe various types of meristems.		4
(b)	How did eukaryotes evolve from prokaryotes?	II (Fessy Type) 20000	4