## SUBJECT CODE NO: - SS-6521 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Zoology) (Sem-IV) Examination May / June - 2023 Evolution and Behaviour ZOO-401

Time	e: 3:00 l	Hours	ı			[Max. Marks:	8(
				whether you have g	ot the right question		
						Sept Sept	
N. B			- V \ -	ions carry equal ma			7
			ii) Draw we	ell labelled diagram	whenever necessary	y S S	
				2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		8, 8,	
				PART -	-A		
0.1	Attemp	ot the fo	ollowing multiple	-choice questions.	Dx	2	0
	i)		orce that initiates e	- 0-			
	3	a)	Variation	b) Mutation	c) Extinction	d) Adaptation	
	ii)	Which	condition can be	explained by Lama	rekism?	O. S. C.	
	4	a)	How giraffes go			OF KS	
		b)	How human lost	their tail			
		c)	How humans bee	come bipedal			
		d) <	All of the above.	· 2			
	iii)	An ex	ample of converge		· 5	27	
		(a)		oths, the wing of H			
		b) (		ic dog, teeth of a we			
		c) 6		iza magnirostris, w	ings of G. fortis.		
		d)	None of the above	ve.	E ST		
	. ,	<b>D</b> .			, , , , , , , , , , , , , , , , , , ,	1 .0	
	iv)				nment is refferd to a		
	200	a)	Natural selection	b) evolution	c) Versatility	d) survival of fittest	
	(V)	Mutat	ions is change in				
	<b>v)</b>	a)	Behaviour	b) DNA	c) Bones	d) wings	
		, u)	2011411041		<i>c, Bolles</i>	ω, π <u>π</u> ευ	
	vi)		Are the all a	alleles of the popula	tions are genes?		
		a)\		(7)	ol c) Genetics	d) Fauilibrium	

	vii)		are the types of Natural selection.						
		a)	Stabilizing selection	b) Directional selection					
		c)	Disruptive selection	d) All of these					
	viii)	Fissio	on-fusion social groups are chara	acteristic of					
		a)		panzees. c) Ring-tailed lemurs d) orangutans					
	ix) The reproductive organs of Osteichthyes are called,and the spen								
		are th							
		a)	Testes: sex cells	b) Gonads: sex cells					
		c)	spawning: Gonads	d) sex cells: Gonads					
	x)	The modern approach to studying primate behaviour involves							
		a)							
		b) <							
		c)							
		d)	Random Selection of primate	groups for observation.					
				Se St. St. The My					
			PA S	ART 'B'					
	F		(Atten	npt any five)					
Q.2	2 Describe the concept of evolution & theory of Darwinism.								
5			Sy Sy						
Q.3	What	are the	patterns of change in nucleotide	es and amino acid sequences.	12				
Q.4	Write	the mechanism of evolution of genes families.							
Q.5	<b>Q.5</b> Describe the concept, scope & limitation of ethology.								
Q.6	Give	an account on mating and courtship behaviour in primates.							
25,1		7							
Q.7	Explain reproductive behaviour in fish.								
Q.8	Write		on following (any two)	S.	12				
	a)	Phero	omones in behaviour						
57	b)	_	patric speciation						
	(c)	Mim	icry and coloration						