

FEDERAL PUBLIC SERVICE COMMISSION FOR POPTITIVE EXAMINATION FOR POPTITIVE EXAMINATION FOR POPTITIVE 2011

ZOOLOGY, PAPER-II

TIME ALLOWED:		(PART-I MCQs)	30 MINUTES	MAXIMUM MARKS: 20					
THREE HO	URS	(PART-II)	2 HOURS & 30 MINUTES	MAXIMUM MARKS: 80					
NOTE: (i) First attempt PART-I (MCQs) on separate Answer Sheet which shall be taken back after 30									
	minutes.								
(ii)	(ii) Overwriting/cutting of the options/answers will not be given credit.								

				(PART	-I MC	CQs) (COMPULSORY	<u>)</u>			
Q.1.	Select the best option/answer and fill in the				appropriate box on the Ans			wer Sheet.	(1 x 20=20)		
(i)	Which one of the enzyme is present in saliva:										
	(a)	Tyaline	(b)	Pepsin		(c)	Enterokinase	(d)	Lipase	(e)	None of these
(ii)	Whi	ich one of the fol	lowin	g act as Seco	ndary	Mess	enger after hormor	nal act	tion on target cel	ls:	
	(a)	ATP	(b)	CTP		(c)	CAMP	(d)	ADP	(e)	None of these
(iii)	Bes	ides nucleus of c	ell, wl	hich organelle	es also	cont	ain DNA?				
	(a)	Golgibodies	(b)	Lysosome	(c)	Mi	tochondria (d)	Ce	ell Membrane	(e)	None of these
(iv)	Lys	osome in a cell is	s respo	onsible for:							
	(a)	Autolysis (b) At	ıtophagy	(c)	Intra	cellular digestion	(d)	All of these	(e)	None of these
(v)	ABo	O blood system i	n hum	an is exampl	e of:						
	(a)	Epistasis (b) Li	nkage	(c)	Poly	genic inheritance	(d)	Multiple allele	(e)	None of these
(vi)	Who	o describe sex lir	ıkage	in Drosophill	a:						
	(a)	Sutton	(b)	Garth Nicol	son	(c)	Jhonathan Singer	(d)	Robertson	(e)	None of these
(vii)	The	number of crani	al ner	ves in man is	•						
	(a)	8	(b)	10		(c)	12	(d)	14	(e)	None of these
(viii)	Win	igs of Birds and t	fly are	example of:							
	(a)	Homologus org	an			(b)	Analogus organ				
	(c) Vestigeal organ			(d)	All of these	(e)	None of these				
(ix)	The	The main chemical composition of ribosome is:									
	(a) RNA + Protein			(b)	DNA + Protein						
	(c)	Protein + Carbo	hydra	te		(d)	Protein + Lipids	(e)	None of these		
(x)	The	hormone cortiso	ne is s	secreted by:							
	(a)	Pituitary gland	(b)	Ovary		(c)	Pancreas	(d)	Adrenal gland	(e)	None of these
(xi)	In p	ond ecosystem the	ne prir	nary consum	er are:	•					
	(a)	Zooplankton	(b)	Insect larva	e	(c)	Fish	(d)	All of these	(e)	None of these
(xii)	The	xx, xo sex deter	minati	ion mechanis	m is p	resent	in:				
	(a)	Man	(b)	Grasshoppe	r	(c)	Birds	(d)	All of these	(e)	None of these
(xiii)	The	DNA replication	ı is:								
	(a)	Conservative				(b)	Semi conservative	e			
	(c)	Dispersive				(d)	Equatorial	(e)	None of these		

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(xiv)	Which	n one of the followin	ng genetic disorde	er is do	minant in man:			18	nese None	
	(a) C	Colour blindness ((b) Haemophili	ia (c) Tay-Sachs	(d)	All of these	(0)	ese	
(xv)	The a	biotic factor that brir	ng sudden change	es in ec	osystem is:			`	12	
	(a) L	eight (b)	Soil	(c)	In organic nutrients	(d)	Fire	(e)	None	
(xvi)	In hur	In human, blood clotting is due to the presence of protein called:								
	(a) A	Albumin (b)	Globulin	(c)	Haemoglobin	(d)	Actin	(e)	None of these	
(xvii)	Male	sex hormones are co	ollectively known	as:						
	(a) E	Estrogen (b)	Androgen	(c)	Cortisone	(d)	Somatotrophic	(e)	None of these	
(xviii)	Which	n one of the followin	ng is not a Memb	rane bo	und cell organelle:					
	(a) N	Mitochondria		(b)	Endoplasmic Ret	c Reticulum				
	(c) F	Ribosome		(d)	Chloroplast	(e)	None of these			
(xix)	The e	nzyme pepsin is pres	sent in:							
	(a) P	ancreatic Juice (b)	Bile	(c)	Saliva	(d)	Gastric Juice	(e)	None of these	
(xx)	The c	hange in species con	nposition of a co	mmunit	y over a long perio	d of t	ime is called:			
	(a) F	Food chain		(b)	Food web					
	(c) E	Ecological succession	n	(d)	Nich	(e)	None of these			
				PAF	RT-II					
	(ii) (iii)	SECTION. All	questions carry	EQUA	n PART-II, selectin L marks. part of the attemp					
			S	ECT	ION - I					
Q.2.	(a)									
	(b)	Explain Transport		(10)						
Q.3.	(a)	Differentiate between	een Mitosis and	Meiosis	cell division.				(10)	
	(b)	Define linkage wit		(10)						
Q.4.	(a)	(a) What are respiratory pigments? Describe haemoglobin in detail.								
	(b)	Explain digestion	of protein.						(10)	
Q.5.	(a)	Describe the main	component of ne	ervous s	system				(10)	
	(b)	How nerve impuls	se is generated in	neuron					(10)	
			<u>S1</u>	ECTI	ON - II					
Q.6.	(a)	Explain the Darwi	n theory about ev	volution	1.				(10)	
	(b)	(b) Give an account of species concept.								
Q.7.	(a)	Differentiate between	een complete and	d incom	plete ecosystem.				(10)	
	(b)	Describe Air Pollu	ition.						(10)	
Q.8.	Writ	Write short notes on the following:								
	(a)	Evolutionary tren	nd (b)	Phy	logeny					

Fossils.

(d)

Multiple alleles

(c)