FEDERAL PUBLIC SERVICE COMMISSION



COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN BS-17 UNDER THE FEDERAL GOVERNMENT, 2011

Roll Number

ZOOLOGY, PAPER-II

		LLOWED:		I MCQs)		AINU		1	MAXIMUM		
		HOURS i) First at	(PART-	/			S & 30 MINUTES		MAXIMUM		
NOTE: (i) First attempt PART-I (MCQs) on separate Answer Sheet which shall be taken back after 30 minutes.											
(ii) Overwriting/cutting of the options/answers will not be given credit.											
(PART-I MCQs) (COMPULSORY)											
								wer Sheet	(1 x 20=20)		
Q.1. Select the best option/answer and fill in the appropriate box on the Answer Sheet . $(1 \times 20=20)$											
(i)		ich one of the	e enzyme	-	saliva	:					
		Tyaline	(b)	Pepsin		(c)	Enterokinase	(d)	Lipase	(e)	None of thes
(ii)	Wh	ich one of the	e followin	g act as Seco	ondary	Mess	senger after hormon	nal ac	tion on target cel	ls:	
	(a)	ATP	(b)	CTP		(c)	CAMP	(d)	ADP	(e)	None of thes
(iii)	Bes	ides nucleus o	of cell, w	hich organel	les also	o con	ain DNA?				
	(a)	Golgibodies	(b)	Lysosome	(c)	M	itochondria (d) Ce	ell Membrane	(e)	None of thes
(iv)	Lys	osome in a ce	ell is respo	onsible for:							
	(a)	Autolysis	(b) Au	ıtophagy	(c)	Intra	acellular digestion	(d)	All of these	(e)	None of thes
(v) ABO blood system in human is example of:											
	(a)	Epistasis	(b) Li	nkage	(c)	Poly	genic inheritance	(d)	Multiple allele	(e)	None of thes
(vi)	Wh	o describe sex	x linkage	in Drosophil	la:						
	(a)	Sutton	(b)	Garth Nico	lson	(c)	Jhonathan Singer	(d)	Robertson	(e)	None of thes
(vii)	The	number of cr	ranial ner	ves in man is	s:						
	(a)	8	(b)	10		(c)	12	(d)	14	(e)	None of thes
(viii)	Wir	ngs of Birds a	nd fly are	example of:	:						
	(a)	Homologus	organ			(b)	Analogus organ				
	(c)	Vestigeal or	gan			(d)	All of these	(e)	None of these		
(ix)	The	main chemic	cal compo	sition of ribe	osome	is:					
	(a)	RNA + Prot	ein			(b)	DNA + Protein				
	(c)	Protein + Ca	arbohydra	te		(d)	Protein + Lipids	(e)	None of these		
(x) The hormone cortisone is secreted by:											
	(a)	Pituitary gla	and (b)	Ovary		(c)	Pancreas	(d)	Adrenal gland	(e)	None of thes
(xi) In pond ecosystem the primary consumer are:											
	(a)	Zooplanktor	n (b)	Insect larva	ne	(c)	Fish	(d)	All of these	(e)	None of thes
(xii) The xx, xo sex determination mechanism is present in:											
	(a)	Man	(b)	Grasshoppe	er	(c)	Birds	(d)	All of these	(e)	None of thes
(xiii)	The	DNA replica	ation is:								
	(a)	Conservativ				(b)	Semi conservativ	e			
	(c)	Dispersive				(d)	Equatorial	(e)	None of these		
		*				. /	•	. /		л	a = 1 of 2

ZOOLOGY, PAPER-II

(xiv)	(xiv) Which one of the following genetic disorder is dominant in man:									
	(a)	Colour blindnes	s ((b) Haemophilia	(c)) Tay-Sachs	(d)	All of these	(e)	None of these
(xv)	(xv) The abiotic factor that bring sudden changes in ecosystem is:									
	(a)	Light	(b)	Soil	(c)	In organic nutrients	(d)	Fire	(e)	None of these
(xvi) In human, blood clotting is due to the presence of protein called:										
	(a)	Albumin	(b)	Globulin	(c)	Haemoglobin	(d)	Actin	(e)	None of these
(xvii) Male sex hormones are collectively known as:										
	(a)	Estrogen	(b)	Androgen	(c)	Cortisone	(d)	Somatotrophic	(e)	None of these
(xviii)	(xviii) Which one of the following is not a Membrane bound cell organelle:									
	(a) Mitochondria			(b)	Endoplasmic Reticulum					
	(c)	Ribosome			(d)	Chloroplast	(e)	None of these		
(xix) The enzyme pepsin is present in:										
	(a)	Pancreatic Juice	(b)	Bile	(c)	Saliva	(d)	Gastric Juice	(e)	None of these
(xx) The change in species composition of a community over a long period of time is called:										
	(a)	Food chain			(b)	Food web				
	(c)	Ecological succe	essior	1	(d)	Nich	(e)	None of these		
PART-II										
NOTE:(i) PART-II is to be attempted on separate Answer Book. (ii) Attempt ONLY FOUR questions from PART-II, selecting TWO questions from each SECTION. All questions carry EQUAL marks. (iii) Fature attempts of one separate of the attempted execution will not be										

Extra attempt of any question or any part of the attempted question will not be (iii) considered.

SECTION - I

Q.2.	(a)	Describe the structure, chemical composition and function of Golgi complex.	(10)				
	(b)	Explain Transport mechanism of plasma membrane.					
Q.3.	(a)	Differentiate between Mitosis and Meiosis cell division.					
	(b)	Define linkage with examples.	(10)				
Q.4.	(a)	What are respiratory pigments? Describe haemoglobin in detail.	(10)				
	(b)	Explain digestion of protein.	(10)				
Q.5.	(a)	Describe the main component of nervous system	(10)				
	(b)	How nerve impulse is generated in neuron.	(10)				
		<u>SECTION - II</u>					
Q.6.	(a)	Explain the Darwin theory about evolution.	(10)				
	(b)	Give an account of species concept.	(10)				
Q.7.	(a)	Differentiate between complete and incomplete ecosystem.	(10)				
	(b)	Describe Air Pollution.	(10)				
Q.8.	Write	e short notes on the following:	(5 x 4 = 20)				

(a)	Evolutionary trend	(b)	Phylogeny
(c)	Multiple alleles	(d)	Fossils.
