FEDERAL PUBLIC SERVICE COMMISSION

ZOOLOGY-I

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, Table 1		EDERAL PUBLIC SE				718
	COMPI IN	ETITIVE EXAMINATION PBS-17, UNDER THE FEI	FOR REC DERAL GO	RUITMENT TO P OVERNMENT, 20	POSTS 03	E PHE COLLINE COLL
		<u>Z001</u>	<u> OGY-I</u>			7.6
TI	ME ALI	LOWED: THREE HOURS		MAXIMUM MA	DKC. 100 /	
NO	TE:	Attempt <u>FIVE</u> questions in a COMPULSORY . Select TV questions carry EQUAL mar	VO questions	Question No. 7 which from each SECTIO	n is	
		SECT	<u>ION – I</u>			
1.	(a)	Discuss the phenomenon of A PARAMECIUM.	Autogamy wit	h special reference to	(07)	
	(b)	Give a brief over view of PAR PLATYHELMINTHES.			(07)	
	(c)	"SPONGES have a DIPLOE statement.	BLASTIC org	anization". Discuss t	(06)	
2.	(a)	Define POLYMORPHISM, a	nd explain w	ith reference to		
	(b)	COELENTRATA. Describe RESPIRATORY SY	ZCTEM im im		(08)	
	(c)	"The skeletal support though inefficient". Comment on the	gives protect		(07) USCS (05)	
3.	(a)	"The ANNELIDS are META Discuss the statement.	25/		(10)	
	(b)	Discuss the WATER VASCU	JLAR system	in ECHINODERMS.	(10)	
		SECTI	ON-II	*		
4.	(a)	Discuss RETROGRESSIVE	METAMORI	PHOSIS with reference		
	(b)	Ascidian. "AMPHIOXUS is an ideal CI	HORDATE".	Comment.	(10) (10)	
_			7 ·		•	
5.	(a)	Discuss the evolutionary char CHORDATE groups.	iges in the str	ucture of neart in diff	(10)	
	(b)	Write a brief essay on MIGRA	ATION in bi	rds.	(10)	
6.	(a)	Give an account of developm	ent of chick t	pto the development		
	(b)	GERMINAL LAYERS. Name the ten CRANIAL NEI	RVFS found	in SCOLIODON	(12) (08)	
	(0)		-		(00)	
		COMPULS	SORY QUES	STION		
7.	• •	e only the correct answer in the	Answer Book	. Do not reproduce th	ne	
	ques	tion Contractile vacuole in PROT	OZOA is has	ically concerned with:	:	
	4	(a) Excretion	(b)	Osmoregulation		
1		(c) Respiration	(d)	None of these		·
_	(2)	GAMMULES are produced i	n:			
	,	(a) Annelida	(b)	Arthropoda		•
7/		(c) Porifera	(d)	None of these		
7	(3)	Scales in REPTILES Original (a) Ectoderm	te from: (b)	Mesoderm		
•		(a) Ectoderm (c) Endoderm	(b) (d)	None of these	•	

Student Bounty.com COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS IN PBS-17, UNDER THE FEDERAL GOVERNMENT, 2003

ZOOLOGY-II

TIM	IE ALL						MARKS: 100			
NOT	E:	Attempt	ading Question No. 8 which is							
		COMPU	LSORY, All que	stions car	y EQU	AL ma	rks. Wr	ite clearly.		
								((')		
1.	(a) Draw neat diagrams representing important stages of me							iosis in an		
	* :	organism having the diploid chromosomal number of 4. (12)								
	(b)		xcretion and briefl					fucts in		
	• /	animals.			~	\wedge		(8)		
					•					
2.	(a)	Define a	nd explain Genetic	c Linkage.	What	are the	cytologi	cal bases of		
_	()	linkage?					7 1 7	(8)		
	(b) How will you explain the production of				of long	of long neck in Giraffe under				
	(-,		an Theory.		\wedge			(12)		
			•		V-11		7			
3.	(a)	Give a d		(10)						
	(b)	What do you understand from energy subsidy.						(5)		
	(c)	Define h	ormones. How do	oes these c	liffer fro	m enz	yme.	(5)		
	` '		•	M	\sim					
4,	(a)	Discuss	the mechanism of	transport	of oxyg	en fron	lungs to	o the		
	• •	tissues.			7			(10)		
	(b)	Write a	brief note on PAR	ACENTR	IC INV	ERSIO	N.	(10)		
	• ′		.4\							
5.	(a)	Give a b	rief account of OF	THOGE	NESIS.			(8)		
	(b)	Discuss	the basic structure	acture and chemical composition of						
	¥ - 7		CHONDRION. N	7				(12)		
6.	(a)	Define r	ollution. Discuss	air polluti	ion with	refere	nce to Pa	akistan. (8)		
•	(b)	Define a	ınd explain EPIST	ASIS. Ho	w does	it differ	from G	enetic		
	(-)	dominar						(12))	
	,	_								
7.	Write	shørt note	es on the following	g: ··						
	(a)		COMPLEX		(b)			ARMING		
	(c)	Possible	first living organi	ism	(d)	Linka	ge	1		
	•		1							
		\sim	COMPU	ULSORY	QUES	<u>TION</u>				
	1					D	. 1			
8.			correct answer in t	he Answe	r Book.	Do no	t reprod	uce the		
	quest	ion.		1		um in				
	(II)		in division of the c							
Λ			Prophase	(b)	Metar		(e)	None of the	425	
4		(c)	Anaphase	(d)	Jelopl	1850	(6)	None of the	-50	
								÷		
//	(2)	•	tein synthesis occi		Endo	nlacmic	raticuli	·		
<u> </u>		()	Mitochondrion	(b)			reticulu	None of the	ივი	
		(c)	Ribosomes	(d)	Acros	ome	(e)	None of the	030	
	(33	plant s	intigens are presen	it in:						
	(3)		illingens are presen Blood serum	(b)	RBC'	's				
		(-)		(d)	Platle		(e)	None of the	esc	
		. (c)	WBC's	(α)	1 10010		1-1			
(4) Sex linked genes are the genes located on:										
(a) x-chromosome only (b) y-chromosom							ne only			
		(a) (c)	Both x and y chro	mosomes.	(d)	x or	y chromo	osomes		
			None of these		•	•	•	•		

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