P.T.O.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

TEST BOOKLET ... AP (CC) ZOOLOGY—2018

Time	e Allowed : 2 Hours] [Max	imum Mar	ks : 100
	All questions carry equal marks.		
	INSTRUCTIONS		110
1.	Immediately after the commencement of the examination, you should che does not have any unprinted or torn or missing pages or items, etc. It by a complete test booklet.	ck that tes so, get it	t bookle replaced
2.	Write your Roll Number only in the box provided alongside.	0.1248	
	Do not write anything else on the Test Booklet.	38	
3.	This Test Booklet contains 100 items (questions). Each item compri (answers). Choose only one response for each item which you consider	ses four reler the bes	esponses st.
4.	After the candidate has read each item in the Test Booklet and decided responses is correct or the best, he has to mark the circle containing selected response by blackening it completely with Black or Blue ball persponse "C" is so marked:	g the lette	r of the
*	(A) (B) (D)		N.
5.	Do the encoding carefully as given in the illustrations. While encoding or marking the answers on answer sheet, you should blacken the circle choice in full and no part of the circle should be left unfilled. After been marked in the ANSWER SHEET, no erasing/fluid is allowed.	e correspon	nding to
6.	You have to mark all your responses ONLY on the ANSWER SHEE according to 'INSTRUCTIONS FOR CANDIDATES' already supplied to you on the Test Booklet or in any paper other than the answer sheet shall	. Responses	marked
7.	All items carry equal marks. Attempt all items. Your total marks we the number of correct responses marked by you in the Answer Sheet. The marking and 1/4 (0.25) of the marks will be deducted as penalty for	ill depend ere will be i	only on
8.	Before you proceed to mark responses in the Answer Sheet fill in the front portion of the Answer Sheet as per the instructions sent to you	particular	s in the
9.	If a candidate gives more than one answer, it will be treated as a w	rong answ	er even
10.	if one of the given answers happens to be correct. After you have completed the test, hand over the Answer Sheet only,	to the Inv	igilator

AP (CC) ZOOLOGY-2018

Γ ime	Allow	ved: 2 Hours]	20	[Maximum Marks: 100
1.	Oral	contraceptive pill contains:		
	(A)	FSH and LH	(B)	Progesterone
	(C)	Progesterone and Estrogen	(D)	Estrogen
2.	RNA	molecule that also functions in	imn	nune response is :
	(A)	Ribozyme	(B)	Abzymes
	(C)	Agzymes	(D)	Exozymes
3.	In I	ndia the first clone produced in	NDF	RI Karnal was of:
	(A)	Sheep	(B)	Cow
	(C)	Goat	(D)	Buffalo
4.	Part	thenogenesis occurs in :		
	(A)	Frog	(B)	Man
	(C)	Honeybee	(D)	House gecko
5.	The	most abundant six elements fo	und i	in living organisms are :
	(A)	C,H,O,N,P,S	(B)	C,H,O,N,P,K
	(C)	C,H,P,O,Na,Cl	(D)	C,O,P,S,N,Ca

AP (CC) ZOOLOGY—2018

6.	Hard	dness of bones is due to the	presence	of:
12000				
	(A)	Calcium carbonates		
	(B)	Calcium sulphates		
	(C)	Calcium phosphates		
	(D)	Calcium oxalate		
7.	20-0	Carbon, unsaturated, open char	in, fatty a	cids which act as local messengers
	are			
	(A)	Prostaglandins	(B)	Steroids
	(C)	Polyterpenes	(D)	Nucleotides
8.	Whi	ch ecological pyramid can ne	ever be i	nverted ?
	(A)	Pyramid of number	(B)	Pyramid of size
	(C)	Pyramid of energy	(D)	Pyramid of biomass
9.	Allo	steric enzymes act as:	14	
	(A)	Catalysts	(B)	Inhibitors
,	(C)	Activators	(D)	Catalysts and regulators
AD (70) 70	OOT OCT 9019	9	РТО

10.	The 'Chipko' movement was started by:	-
	(A) Salim Ali (B) S. Bahuguna	
	(C) Mehta (D) Indira Gandhi	
11.	The simplest type of amino acid is:	
# E	(A) Alanine (B) Lysine	Ta a
	(C) Tyrosine (D) Glycine	
1 2.	The most effective antibiotic against Mycoplasma pneumon	iae is:
2	(A) Tetracycline (B) Penicillin	
	(C) Streptomycin (D) Nystatin	
13.	Which one of the following is a correct set of endang	ered species of
	India ?	
	(A) Great Indian bustard, Musk deer, Asiatic lion	
	(B) Kashmir stag, Cheetal, Great Indian bustard	, ^k
	(C) Snow leopard, Rhesus monkey, Hanuman Langur	
	(D) Lion-tailed macaque, Hanuman Langur, Cheetal	
AP	P (CC) ZOOLOGY—2018 4	

14.	The	ory of chemical origin of life wa	is pos	stulated by:		ę
	(A)	Miller and Fox	(B)	Watson and I	Miller	ř
	(C)	Oprain and Haldane	(D)	Pasteur		* 8
1 5.	Gen	etic drift is a result of:			Att.	and d
	(A)	Variations	(B)	Mutation	7	
	(C)	Increase in population	(D)	Decrease in p	opulation	
16.	Whi	ch group of organisms serves as t	he be	est indicator of p	oollution in	a wate
£	body	7 ?				
	(A)	Plankton	(B)	Nekton	· · · · · · · · · · · · · · · · · · ·	v
	(C)	Benthos	(D)	Neuston		
17.	In I	ndia, the lion-tailed macaque is	foun	d only in :	1 2	
	(A)	Guindy National Park	26 16			
	(B)	Eastern Ghats		3.		
	(C)	Bandipur Biosphere Reserve		a a	5 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	
	(D)	Western Ghats		T of a	**	* 1

P.T.O.

AP (CC) ZOOLOGY—2018

18.	VNT	CR is employed in:		
Œ	(A)	DNA fingerprinting	(B)	Cloning
	(C)	Splicing	(D)	Probe
19.	Whe	en was Darwin's "Origin of Spec	ies" p	oublished ?
	(A)	July 1858	(B)	July 1859
	(C)	November 1859	(D)	December 1859
20.	Whe	ere First Biosphere Reserve of I	ndia	is located?
	(A)	Nilgiri	(B)	Nanda Devi
560	(C)	Sunderban	(D)	Great Nicobar
21.	In a	dult mammals the haemoglobin	cons	ists of:
	(A)	1 α-chain and 1 β-chain		8
	(B)	2 α -chains and 2 β -chains	No.	<u>8</u>
	(C)	3 α -chains and 1 β -chain	* *	
	(D)	1 α-chain and 3 β-chains		
AP (0	CC) Z	OOLOGY—2018 6		

22.	Edv	ward Jenner discovered:		
-				
	(A)	Antiseptic surgery	(B)	Smallpox Vaccine
	(C)	Insulin	(D)	Malaria parasite
23.	Wh	ich Indian National Park is fa	mous :	for Rhinoceros population?
	74			
	(A)	Ranthambor	(B)	Jim Corbett
x =1			4	
	(C)	Kaziranga	(D)	Chilka
0.4				
24.	Wh	ich antibiotic inhibits peptide b	ond fo	ormation in prokaryotes?
	745			
	(A)	Streptomycin	(B)	Tetracycline
	(C)	Chloramphenicol	(D)	Neomycin
	(0)	Cinoramphenicor	(1)	Neomycm
25.	Whi	ich organization publishes the '	Red D	Data Book'?
	(A)	IUCN	(B)	UNEP
			(2)	
	(C)	WWF	(D)	GEF
		**	V— 2	
26.	In r	neiosis, exchange of genes occu	rs in	
	(A)	Zygotene	(B)	Pachytenė
	(C)	Diplotene	(D)	Diakinesis
AP(C	C) ZC	OOLOGY—2018 7	**	P.T.O.

27.	Cori	cycle occurs in betw	een :		1 T	
	1. 3	0	e as			8 =
jg.	(A)	Liver and kidney		(B)	Liver and n	nuscle
	- 10	*				5 K
	(C)	Kidney and gonad		(D)	Muscle and	bone
28.	A m	ule is obtained by co	rossing:			
ä	(A)	Jack and Jennet		(B)	Stallion and	l mare
	(C)	Jack and Mare	**************************************	(D)	Stallion and	l Jennet
29.	A so	equence of DNA that	has the a	bility	to change it	s position is
• 2	(A)	Cistron		(B)	Transposon	
	(C)	Exon		(D)	Intron	
30.	Bio	geographical regions	are also ca	illed:		
	(A)	Zones		(B)	Realms	
	(C)	Epoch		(D)	Era	
31.	Alp	oha and beta chains	of insulin	contai	n :	
	(A)	51 amino acids		(B)	55 amino	acids
*	(C)	41 amino acids		(D)	61 amino	acids
\mathbf{AP}	(CC) 2	ZOOLOGY—2018	8	3		

32.	Two	species occupying same or over	lappi	ng area are:
	(A)	Allopatric	(B)	Sympatric
	(C)	Parapatric	(D)	Peripatric
33.	Whi	ch of the following glands is bo	th en	docrine and exocrine ?
	(A)	Adrenal	(B)	Pituitary
	(C)	Pancreas	(D)	Pineal
34.	A se	equence of DNA which is transc	ribed	but not translated:
	(A)	Axon	(B)	Intron
	(C)	Cistron	(D)	Codon
35.	Cell	theory was proposed by:		
	(A)	Mendel and Morgan	(B)	Wallace and Darwin
E 10	(C)	Watson and Crick	(D)	Schleiden and Schwann
36.	Wha	at is the method used for estab	lishin	g linear relationship between two
	vari	ables ?		
	(A)	ANOVA	(B)	t-Test
	(C)	Chi-square test	(D)	Regression analysis
AP(C	C() Z (OOLOGY—2018 9		P.T.O.

37.	In l	numan beings; A,B,	O blood groups ar	re example of:	2 4
7 3, 8	(A)	Linkage			¥ .
	(B)	Partial Dominance	•		
	(C)	Gene Interaction			
	(D)	Multiple allelism			
38.	In g	ynandromorph <i>Dros</i>	ophila one part of	the body has XX chrom	osomes th
	othe	er part has chromos	omes :		
er.	(A)	XY	(B)	X0	
	(C)	XXY	(D)	Y 0	
39.	Nitr	ogenous base is lin	ked to deoxyribos	e through:	
100 B	(A)	O-glycosidic bond	(B)	N-glycosidic bond	
	(C)	H-Bond	(D)	Phosphodiester bond	
40.	The	nurse cells in testi	s of mammals are	9 :	
	(A)	Leydig cells	(B)	Sertoli cells	
¥ " *	(C)	Myoid cells	(D)	Interstitial cells	
AP (C	CC) Z (OOLOGY—2018	10		

	*			
N.	(A)	Oligochaeta	(B)	Polychaeta
	(C)	Hexactinellida	(D)	Archiannelida
42.	Ner	vous tissue originates from	:	
	(A)	Ectoderm	(B)	Endoderm
į.	part .			
	(C)	Mesoderm	(D)	Ecto-mesoderm
43.	The	centromere divide during	meiosis at	
	i i		*	
	(A)	Prophase-1	(B)	Anaphase-1
		* * * * * * * * * * * * * * * * * * * *		
	(C)	Metaphase-1	(D)	Anaphase-II
	•			
44.	Man	nmary glands do not bear	teats in:	
	¥			
	(A)	Eutheria	(B)	Prototheria
	•			
	(C)	Metatheria	(D)	Theria
200	15			
45 .	Repo	orter gene commonly used	in express	ion vector is :
	Moreover			
*	(A)	TAC	(B)	GAT
3.00	(C)	CAT	(D)	TAG
AD (C	0 70	OLOGY—2018		P.T.O.

46.	The	shell in mollu	scs is secre	eted by	•	* * * * * * * * * * * * * * * * * * *	1 T T T T
	(A)	Pericardium	* * *		(B)	Foot	e 8 9 g
*	(C)	Ctenidium			(D)	Mantle	
47.	Nan	ne the group o	of animals	which d	o no	t live in salt	water:
14 T	(A)	Fishes			(B)	Amphibians	* *
9 -4	(C)	Mammals		***	(D)	Reptiles	
48.	In h	numan, jaw su	spension is	of whi	ch ty	pe?	
a.	(A)	Monimostylic			(B)	Hyostylic	
*	(C)	Craniostylic	9		(D)	Streptostylic	3
49.	DN.	A formed from	RNA is:				
	(A)	A DNA	19		(B)	B DNA	- a s
W E	(C)	c DNA	8 2	,	(D)	Z DNA	
50.	Axi	s is absent in	1 a **	3		# E	
	(A)	Frog			(B)	Lizard	
	(C)	Snake		- 1	(D)	Rat	
AP(CC) Z	OOLOGY-20	18	12			

51.	Dur	ring meiosis, the lampbrush ch	romoso	mes are seen at:
	(A)	Metaphase	(B)	Interphase
	(C)	Diplotene	(D)	Zygotene
52.	Hur	nan population growth curve	at pres	ent is at which phase?
	(A)	Stationary	(B)	Lag
	(C)	Exponential	(D)	All of these
53.	Scie	ntist Ian Wilmut is known for	r :	
	(A)	DNA Fingerprinting	(B)	Dolly
	(C)	Andi	(D)	Copy cat
54.	Ove	rlapping region between two e	cosyste	ms is :
	(A)	Edge effect	(B)	Ecotone
	(C)	Niche	(D)	Interacting Zone
55.	Two	or more codons coding for on	e amin	o acid:
	(A)	Non-overlapping codon	*	
	(B)	Non-ambiguous		
	(C)	Degeneracy of codon		
	(D)	Non-sense codon		

P.T.O.

AP(CC) ZOOLOGY—2018

56.	The	eighth vertebrae in frog is:	7 8	2
1955114	(A)	Procoelous	(B)	Acoelous
	(C).	Amphicoelous	(D)	Heterocoelus
65	5:0		* **	
57 .	Tadp	oole larva of frog respires through	h :	
	w =			
	(A)	Lungs	(B)	Skin
£				
	(C)	Bucco-pharyngeal cavity	(D)	External gills
* 10				
58.	In fr	og, the cavity of olfactory lobes	is ca	lled:
	1			
	(A)	Rhinocoel	(B)	Olfactocoel
131	(20)		(T)	
	(C)	Rhambocoel	(D)	Hydrocoel
F 0	OI- 11-			
59.	Cnik	ungunya is transmitted by:		
29 8	(4)	Ada	(P).	Culex
, , , , , ,	(A)	Ades	(D)	Cutex
	(C)	Anopheles	(D)	Culiseta
	(0)	Anophetes	(D)	Carrsera
60.	In h	rain grey matter is present:		₩ 5
00.	III D	ram grey matter is present.	E1	
	(A)	Inside	(B)	Outside
	(11)		(—)	
₹.	(C)	Posterior side	(D)	Anterior side
<u></u>				
AP (C	CC) ZC	OOLOGY—2018 14	15	P. v.—-
. €0		***		

+-

61.	In	mammals, Wolffian duct	gives rise to) :	
	(A)	Mullerian duct	(B)	Oviduct duct	
	(C)	Epididymis	(D)	Labia major	
62.	Wh	ich blood protein mainta	ins normal b	plood pressure ?	
	(A)	Albumin	(B)	Fibrinogen	
	(C)	Globulin	(D)	Collagen	
63.	Tra	nsfer of DNA bands from	agarose gel t	o mtrocellulose or n	ylon membrane
	is:			- 2 · 5	
	(A)	Southern blotting	(B)	Western blotting	
	(C)	Northern blotting	(D)	Eastern blotting	
64.	Dow	n's syndrome is due to:			
37	(A)	Duplication	(B)	Non-disjunction	
	(C)	Linkage	(D)	Crossing over	
65.	The	Chordate which does no	t possess no	tochord in its adult	; life :
	(A)	Balanoglossus	(B)	Amphioxus	
	(C)	Herdmania	(D)	Myxine	= W N =
AP(C	C) Z O	OLOGY—2018	15	* *	P.T.O.

66.	Wh	ich gland is active dur	ing chilhood b	ut atrophies in adult?
	(A)	Adrenal	(B)	Thyroid
	(C)	Thymus	(D)	Pancreas
67.	TAT.			
01.	Net	ırolemocytes are also k	nown as:	
	(A)	Schwann cells	(B)	Schneider cells
`.	V			
	(C)	Muller cells	(D)	Jacobson cells
68.	Wh	ich hammana maintai		
00.	AATT	ich normone maintains	normal blood p	pressure by regulating excretion of
	wat	er?		
	(A)	Renin	(B)	Angiotensinogen
	(C)	Angiotensin	(D)	Aldosterone
69.	Whi	ch Phylum belongs to	Deuterostomia	?
			6	
v.	(A)	Mollusca	(B)	Arthropoda
	(C)	Annelida	(D)	Echinodermata
70.	The	life on earth emerged	in which ore	
		me our carvir emerged	in which era	
	(A)	Mesozoic	(B)	Proterozoic
	S.		£ 1 2 2	
	(C)	Archeozoic	(D)	Paleozoic
AP (C	CC) Z C	OOLOGY—2018	16	

71.	Pla	smodium completes its sexu	al cycle i	n :	
25	(A)	Blood of man			
	(B)	Gut of Mosquito	8		
	(C)	Salivary glands of Mosqui	ito		
	(D)	Body cavity of Mosquito			
72.	The	fluid that lubricates joints	is:		
27	(A)	Haemolymph	(B)	Synovial fluid	
je .	(C)	Plasma	(D)	Serum	
73.	Pyr	uvic acid before combining w	ith oxaloa	cetic acid in TCA	ycle is converted
2	into	:		ES	
	(A)	Cis-aconitic acid	(B)	Acetyl CoA	
	(C)	Lactic acid	(D)	Acetoacetic acid	
74.	Man	ntoux test is for:			
	(A)	Diphtheria	(B)	Scarlet fever	
	(C)	Tuberculosis	(D)	Rheumatoid feve	r
AP(C	C) Z O	OCLOGY—2018	17	to a second	P.T.O.

75.	Bira	mous appendages are present in	1 :	
£ ii	(A)	Cockroach	(B)	Prawn
	5		15. 10	
	(C)	Onchophora	(D)	Spider .
3				
76.	The	histone octamer complexed with	DN.	A is called as:
			*	
	(A)	Endosome	(B)	Nucleosome
				*
	(C)	Chromocentre	(D)	Hertone
*	(-)			
77.	Spei	rm head contains modified :		
***	ope.	in read contains mounted.	¥ .	
	(A)	Lysosome	(B)	Mitochondria
		Lysosome	(-)	
	((1)	Golgi body	(D)	Centrosome
	(C)	Golgi body	(D)	Centrosome
70	The c	function of embryonic membrar	a al	lantois is :
78.	ıne	function of embryonic membrai	ie, ai	iantois is .
	7.4.3	T0	(D)	Protection from shocks
	(A)	Excretion	(B)	Tiotection from shocks
	(A)	77	(D)	Promination and Exerction
io.	(C)	Nutrition and Excretion	(D)	Respiration and Excretion
	Particles C			
79 .	The	hexose monophosphate pathway	y is a	associated with production of
			4	
8	(A)	ATP	(B)	$NADH_2$
		3 2		
	(C)	$NADPH_2$	(\mathbf{D})	$FADH_2$
AP (0	CC)Z	OOLOGY—2018 18		

80.	The cocoon of earthworm contains fertilized eggs:					
	(A)	One	(B)	Two		
9	(C)	Many	(D)	Four		
81.	"Ind	ia : The Crucial Years" book	s is writt	en by:	,	
	(A)	M.L. Fotedar	(B)	T.V. Rajeswar	ga a - A	
	(C)	Mark Tully	(D)	Chetan Bhagat		
82.	Wha	at is the capital of Zambia?		ST		
*	(A)	Harare	(B)	Djibouti	6	
Na. Disc	(C)	Lusaka	(D)	Aman		
83.	PEP	SU stands for :	7 8		560	
	(A)	Patiala and Provincial Stat	es Union	ı		
	(B)	Patiala and East Punjab S	tates Un	ion	300 O	
	(C)	Punjab and East Provinces	States 1	Union		
	(D)	Phagwara and East Punjak	States	Union		
84.	Whe	en did Shimla become the su	ımmer ca	apital of Govt. of Ind	ia ?	
	(A)	1870	(B)	1864		
	(C)	1872	(D)	1815		
AP(C	C) Z C	OOLOGY—2018	19		P.T.O.	

85.	Identify the correct chronological ord	ler of the founding of the following prince
	states?	
,	(A) Mandi—Kullu—Suket	
100	(B) Kullu—Suket—Mandi	
	(C) Suket—Kullu—Mandi	
	(D) Suket—Mandi—Kullu	
*		
86.	Killar hydel project is on the:	
	(A) Chenab basin	(B) Beas basin
(4. 14. 16.	(C) Ravi basin	(D) Satluj basin
87.	Who is the author of "Gandhi:	A Study In Revolution"?
	(A) Geoffrey Ashe	(B) B.R. Nanda
	(C) Carl Heath	(D) Joseph Parker
88.	In which country did Rohingyas	genocide take place?
	(A) Bhutan	(B) Pakistan
	(C) Rwanda	(D) Mynamar

AP (CC) ZOOLOGY—2018

89.	Wh	ich river is called	Bengal's sorre	w ?		280	
¥	(A)	Damodar	-	(B)	Mahanadi		
	(C)	Tapti		(D)	Saryu		i.
90.	Who	ere is Kugti wildlif	fe sanctuary ?	= 30		*	
	(A)	Kinnaur		(B)	Lahaul-Spiti		
	(C)	Shimla		(D)	Chamba		
91.	Who	was the Mandi r	uler during 1	857 1	Mutiny ?		
	(A)	Bijai Sen) All	(B)	Balbir Sen		
z"	(C)	Surma Sen		(D)	Ishwari Sen	8	
92.	Whi	ch of the following	temples of Ch	amba	a is similar to S	Shakti Dev	ri templ
	at (Chatrari) ?			n .		W
	(A)	Lakshana Devi Te	emple (Bharm	aur)			E.
	(B)	Lakshmi Narayan	Temple (Cha	ımba)			
= *	(C)	Bansi Gopal Temp	ple (Chamba)				
	(D)	Gauri Shankar Te	emple (Chamb	a)		100	S
AP(C	C) ZO	OLOGY—2018	21				Р.Т.О

P.T.O.

93. When was Kumharsain principality founded?					
				4	
R PL	(A) 1000 A.D.	TOWN Y	(B)	1416 A.D.	
	(C) 1606 A.D.		(D)	1379 A.D.	
94.	From which constituency in	2017 As	semb	ly election, the victory	margin of
	the candidate was lowest?			T 80 M	
		(V)		8 . V	
8	(A) Pachhad	16	(B)	Kinnaur	
	N SA				
	(C) Kutlehr	*	(D)	Sujanpur	
95.	Which was the original cap	nital of N	urnu	r state ?	
55.	Wineir was the original ea	pitai oi it	arpa		*
	748 75 17 17 17		(D)	D 1 1'	
	(A) Pathankot		(B)	Basholi	
	e de la companya de l				
	(C) Jaswan		(D)	Siba	
		W			
96.	Who among the following	was the	earlie	st visitor to Kangra?	
	(A) Thomas Coryat		(B)	Mr. Vegne	
				£	7
* 32	(C) Captain Herry	a.	(D)	Captain Kennedy	\$0 0
AP (C	CC) ZOOLOGY—2018	22			

97.	Whe	en was United Bank of India starte	d I	by some of the l	nouse	proprietor	
	in S	Simla, in opposition to the old Simla	a I	Bank?	3		
	(A)	1865 (B	.)	1885			
	(C)	1845 (D))	1875			
98.	Ider	ntify the wrong/incorrect statement	:				
ž.	(A)	Two non-salute states of PEPSU	wei	re Kalsia and N	alaga	rh	
	(B)	PEPSU state was created between 1948-1956					
	(C)	PEPSU states were created by un	iti:	ng eight princel	y stat	es	
	(D)	All the above statements are corre	ect				
99.	Kan	mrau and Sataun in Sirmaur distric	tε	are famous for :			
	(A)	Limestones			į.		
	(B)	Iron ore				w.	
	(C)	Distinct cultural identity		\$1		*	
	(D)	Apple production			**		
100.	Bila	aspur district became a part of H.P	in	1954 as:	200		
	(A)	6th district (B)	4th district	٤		
	· (C)	5th district (D)	9th district	5		
	(C)	5th district (D)	9th district	5		