DEPARTMENT OF EDUCATION CENTRAL TIBETAN ADMINISTRATION, DHARAMSHALA ENTRANCE EXAMINATION-2012.

ZOOLOGY

Time		1	hours
	-	-	

Max. Marks 50.

INSTRUCTIONS:

There are fifty questions in this paper. All the questions are of Multiple Choice type and carry equal marks. Each question is followed by four responses marked (a), (b), (c) and (d). Select the one, which is the best in each case and record it clearly against the question number on the answer sheets provided with the paper.

More than one response indicated against an item or overwriting in the answer sheet would deem as incorrect response and no mark will be granted on that.

Question paper along with the answer sheet of the paper should be returned to the invigilator after the completion of the paper or when the time is over whichever is earlier.

Roll No		79		
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Marks obtaine	d by the c			

Signature of Examiner

ZOOLOGY-2012

Q.1.	Which of the following disease is ca	aused by virus and transmitted by r	nosquito?
	(a) Yellow fever	(b) Typhus	
	(c) Plague	(d) Filariasis	
Q.2.	The correct match in the following p	pair is	
	(a) Gonorrhoea – Vibrio		
	(b) AIDS - Bacillus		
	(c) Malaria – Trypanosoma		*
	(d) Syphilis – Treponema pallidum		
Q.3.	In which of the following couples, d	octor suggested that not more than	one chile
	survived?		
	(a) Rh^+ male and Rh^- female		
	(b) Rh^- male and Rh^+ female		
15".	(c) Rh^+ male and Rh^+ female		
	(d) Rh ⁻ male and Rh ⁻ female		
Q.4.	Vaccine for hepatitis-B is		
	(a) First generation vaccine	(b) Third generation vaccine	
	(c) Second generation vaccine	(d) None of the above	
Q.5.	Colchicine brings about		
	(a) Chromosomal aberrations	(b) Duplication of chromosome	s
	(c) Gene mutations	(d) Quick transcription	******************
Q.6.	Nicotine acts as a stimulant because	se it mimics the effect of	
	(a) Thyroxine	(b) Acetylcholine	
	(c) Testosterone	(d) Dopamine	
Q.7.	Amniocentesis is a technique to		
	(a) Estimate essential amino acids	in the body	
	(b) Detect chromosomal anamolies	s in the foetus	
	(c) Reverse sex of the foetus		A
	(d) Correct genetic disorders of the	foetus	

Q.8.	Two opposite forces operate in the	ne growth and development of every
	population. One of them relates to the	e ability to reproduce at a given rate. The
	force opposite is called	
	(a) Morbidity	(b) Biotic potential
	(c) Fecundity	(d) Environmental resistance
Q.9.	Logo of WWF is	
	(a) Red panda	(b) Giant panda
	(c) Polar bear	(d) Tiger
Q.10.	The animal that has recently become	extinct is
	(a) Lion	(b) Wolly mammoth
	(c) Dodo	(d) Archaeopteryx
Q.11.	Disease caused by eating fish inhabiti	ng mercury contaminated water is
	(a) Bright's disease	(b) Minimata disease
	(c) Hashimoto disease	(d) Osteosclerosis
Q.12.	The more abundant animals in a dese	rt grassland are
•	(a) Arboreal	(b) Diurnal
	(c) Scansorial	(d) Fossorial
Q.13.	A bird introduced from another country	y become a serious pest due to
	(a) Better adaptation to new area	(b) Increased sexual reproduction
	(c) Better nesting habitats	(d) Absence of natural competition
Q.14.	In human beings, the eggs are	1
	(a) Microlecithal	(b) Alecithal
	(c) Mesolecithal	(d) Macrolecithal
Q.15.	Diabetes inicipidus occurs due to the l	hypo secretion of
	(a) Oxytocin	(b) Thymosin
	(c) Vasopressin	(d) Insulin
Q.16.	The role of renin is	
	(a) To help in curdling	
	(b) Reduction in blood pressure	
	(c) Degradation of angiotensinogen	
	(d) Stimulation of corpus luteum	

Q.17.	Middle piece of mammalian sperm cor	ntains
	(a) Nucleus	(b) Centriole
	(c) Mitochondria	(d) Polar bodies .
Q.18.	The animals who can see well at night	have on retina abundance of
	(a) Cone cells	(b) Scotopsin pigment
	(c) Rod cells	(d) Melanin pigment
Q.19.	In the resting state of neural mer	mbrane, diffusion due to concentration
	gradients, if allowed would drive	
	(a) Na^+ into the cell	(b) Na^+ out of the cell
	(c) K^+ into the cell	(d) Na^+ out and K^+ into the cell
Q.20.	One of the following pair of cranial ner	ves is purely sensory
	(a) Trigeminal, optic, vagus	
	(b) Optic, olfactory, Auditory	
	(c) Trochler, Abducens, Hypoglossal	
	(d) Hypoglossal, Glosso pharyngeal, v	agus
Q.21.	Which of the following part of human e	eye is devoid of blood supply?
	(a) Retina	(b) Choroid
	(c) Cornea	(d) Sclera
Q.22.	The neurotransmitter for sympathetic in	nervous system is
	(a) Noradrenaline	(b) Glycine
	(c) Acetylcholine	(d) GABA
Q.23.	The joint between atlas and axis verte	bra is
	(a) Ball and socket	(b) Pivotal
	(c) Saddle	(d) Angular
Q.24.	ATPase enzyme needed for muscle co	ontraction is located in
	(a) Myosin	(b) Actin
	(c) Troponin	(d) Tropomyosin
Q.25.	Uricotelism is found in	
	(a) Frogs and toads	(b) Birds, reptiles and insects
	(c) Mammals and amphibians	(d) Fishes and fresh water protozoans

Q.26.	Minimum concentration of nitrogenous	s wastes is present in
	(a) Renal vein	(b) Renal artery
	(c) Hepatic vein	(d) Renal portal vein
Q.27.	Short lived immunity acquired from m	others to the infants through mother's milk
	is categorized as	
	(a) Active immunity	
	(b) Cellular immunity	
	(c) Passive immunity	
	(d) Innate nonspecific immunity	
Q.28.	What prevents clotting of blood in blood	od vessels?
	(a) Heparin	(b) Serotonin
	(c) Fibrinogen	(d) Fibrin
Q.29.	At high altitudes, the erythrocytes in h	uman blood
	(a) Decrease in size	(b) Increase in size
	(c) Decrease in number	(d) Increase in number
Q.30.	In which one of the following pairs, the	e two items mean one and the same thing
	(a) Rennin – Renin	
	(b) SA node – Pacemaker	
	(c) Haemophilia – blood cancer	
	(d) Malleus – Anvil	and the second s
Q.31.	When carbon dioxide concentration in	the blood increases, breathing becomes
	(a) Slow and deep	(b) Faster and deep
*****	\-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(d) No effect on breathing
Q.32.		poisonous gas emitted by automobiles,
	prevent transport of oxygen into the b	ody tissues?
	(a) By changing O_2 into CO_2	
	(b) By destroying the hemoglobin	
	(c) By forming a stable compound wit	h hemoglobin
	(d) By obstructing the reaction of O_2	with hemoglobin
		e e e

Q.33.	Vitamin C is helpful in the	
	(a) Formation of visual pigment	
	(b) Growth of bone	*
	(c) Treatment of pernicious anemi	ia
	(d) Wound healing	and the second s
Q.34.	Thecodont, diphyodont and heter	odont teeth are characteristics of
	(a) Aves	(b) Reptiles
	(c) Mammals	(d) Amphibians
Q.35.	In mammals, the melanocytes giv	re protection from
	(a) Infra red rays	(b) Ultraviolet rays
	(c) X – rays	(d) Visible light rays
Q.36.	Out of the following, one is the ex	cample of competitive inhibition of an enzyme
	(a) Cytochrome oxidase by cyanic	de
	(b) Succinic dehydrogenase by m	nelonic acid
	(c) Hexokinase by glucose - 6 -	Phosphate
	(d) Carbonic anhydrase by carbo	n dioxide
Q.37.	Chitin that form arthropod ex	xoskeleton, is the second most abundant
	carbohydrate on earth. It is a	
	(a) Storage polysaccharide	
	(b) Muco polysaccharide	
	(c) Nitrogen containing hetero po	lysaccharide
	(d) Oligosaccharide	* . *-
Q.38.	Chemiosmotic theory of ATP syn	thesis in the mitochondria is based on
	(a) Membrane potential	
	(b) Accumulation of Na ions	
	(c) Accumulation of K ions	
	(d) Proton gradient	
Q.39.	The cell organelle associated wit	th protein synthesis is
	(a) Chloroplast	(b) Ribosome
	(c) Pyrenoid	(d) Mitochondria

Q.40.	Centrosomes are found		
	(a) In plant cell only	(b) In animal cell	
	(c) In both animal and plant cell	(d) None of these.	
Q.41.	Haversian canals are found in		
	(a) Middle ear	(b) Mammalian bone	
	(c) Mammalian cartilage	(d) Fish and amphibians bone	
Q.42.	Gambusia is a		
	(a) Pest of fishes	(b) Parasitic fish	-
	(c) Predator of mosquito larvae	(d) Arthropod which eat insects	
Q.43.	In a mutational event, when adenine is	s replaced by guanine, it is a case of	
	(a) Transcription	(b) Transition	
	(c) Trans version	(d) Aneuploidy	
Q.44.	Nitrogenous base sequence in one str	and of DNA is	
	ATGCTTGA		
	The sequence in the complementary s	strand will be	
*	(a) TAGGTAGT		
	(b) TACGAACT		
	(c) T A G G A A G T		
	(d) T C C G A A C T		
Q.45.	In the phylogeny of horse, the earliest	fossil form is	
	(a) Eohippus	(b) Merichippus	
	(c) Mesohippus	(d) Equus	
Q.46.	Which of the following provides the me	ost direct proof of organic evolution?	
	(a) Fossils	(b) Morphology	
	(c) Embryo	(d) Vestigial organs	
Q.47.	An artificial pacemaker is implanted so	ubcutaneously and connected to the heart	
	in patients		
	(a) Having 90% blockage of the three	main coronary arteries	1
	(b) Having a very high blood pressure		
	(c) With irregularity in the heart rhythn	n	4
	(d) Suffering from arteriosclerosis		

Q.48.	Excessive consumption of ethal	nol causes damage to the
	(a) Liver	(b) Kidneys
	(c) Lungs	(d) Heart
Q.49.	Bandipur (Karnatka) national pa	ark runs a project for
	(a) Peacock	(b) Deer
	(c) Tiger	(d) Elephant
Q.50.	Branch of biology which deals v	vith ageing is
	(a) Paleontology	(b) Genology
	(c) Gerontology	(d) Genetics

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ANSWER SHEET FOR	, e - 5		
ZOOLOGY	Roll No.		41

Q.No.	Ans.								
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