ZOOLOGY 2003

41.	Members of this phylum exhibit adaptation	•			
	(1) Porifera (2) Coelenterata	(3) Echinodermata	(4) Mollusca		
42.	The animal that has 19 body segments 6 pa				
	(1) Spider (2) Prawn	(3) Scorpion	(4) Head louse.		
43.	The formation of mesoderm as evaginated s	sacs from the archentero	on is characteristic of:		
	(1) Palamnaeus (2) Pila	(3) Physalia	(4) Pentaceros		
44.	The response to external stimulus is quicke	r and more precise in its	s .symmetry:		
	(1) Radial (2) Bilateral	(3) Spherical	(4) Biradial		
45.	The type of pseudopodia seen in Lecithium	is:			
	(1) Axopodia (2) Reticulopodia	(3) Filopodia	(4) Lobopodia		
46.	The number of divisions that the synkaryon	of post zygotic vortice	lla undergoes is :		
	1) One (2) Two	(3) Three	(4) Four		
47.	Nosema notabilis is an example for:				
	(1) Commensalism (2) Symbiosis	(3) Ectoparasitism	(4) Hyperparasitism		
48.	The trematode parasite infecting human lun	ngs with two intermedia	te hosts in its life cycle is:		
	(1) Schistosma haematobium	(2) Paragonimus weste	ermani		
	(3) Loa loa	(4) Mycobacterium tul	perculosis		
49.	Triatoma infestans is tile intermediate host in the life-cycle of:				
	(1).Leishmania donovani	(2) Trypanosoma cruzi			
	(3) Leishmania tropica	(4) Schistosoma haematobium			
50.	The infective stage of Ancylostoma duodenale to humans is:				
	(1) Egg containing larva (2) Filariform larva				
	(3) Microfilaria larva (4) Rhabditiform larva				
51.	The infective stage to humans of the organism that causes Tashkent ulcers is:				
	(1) Metacyclic form (2) Crithidial form				
	{3} Leptomonad form.	(4) Tetranucleate stage			
52.	In Pheretima the glands that help in binding the worms during copulation are:				
	(1) Prostate glands (2) Albumin glands				
	(3) Accessory glands	{4} Mucous glands			
53.	In pheretima, the cells that are analogous to	• •	rates are:		
	(1) Amoeboid cells (2) Chlorogogen cells	-	(4) Circular cells		
54.	In Pheretima the number of ring vessels per				
	(1) Ten (2) Ten pairi	(3) Twelve pairs	(4) 24 pairs		
55.	Stink glands are present between these abdo	` '	` ' 1		
	(1) 4th and 5th (2) 5th and 6 th	(3) 6th and 7th	(4) 7th and 8th		
56. /	Abdominal ganglia in cockroach are found in	` '	(1) / thi thing our		
	(1) 1,2,3,4, 6 and 7	(2) 1,2, 3, 4, 5 and 6			
	(3) 3,4,5,6,7 and 8	(4) 8, 9 and 10th			
57.	The herbivorous insect that has piercing and sucking type of mouth parts is:				
٥,,	(1) Cimex (2) Culex	(3) Apis	(4) Tachardia		
58.	A temporary, ectoparasitic nocturnal insect	· / •	, ,		
<i>-</i> .	(1) Pediculus (2) Cimex	(3) Tachardia	(4) Musca		
59.	One of the human diseases due to biomagni	` '	` '		
٠,٠	(1) Minamata (2) Asthma	(3) Tuberculosis	(4) Elephantiasis		
	(2) Millia (2) Millia	(5) I doctediosis	(1) Diephandasis		

60.	The ears of a mam an example of:	mal living in a Cold A	area were smaller than the	he one ,living in a Warm area. This is	
	(1) Bergman's rule	(2) Iordan's rule	(3) Allen's rule	(4) Gloger's rule	
61.	The growth rate of a population stabilizes after:				
62.	2 2		(2) Stationary phase		
	(3) Carrying capacity		• •	(4) Negative Acceleration phase	
			e a complimentary and palindromic sequence ?		
63.	(1) 5'ATATCC3'	(2) 5'CCGAAT3'	(3) 5'GAATTC3'	(4) 3'AGGTTC5'	
		` '	(3) 3 GAATICS	(4) 3 AGG11C3	
	Hemicyclaspis belo	· ·	(2) C = 41 = 44 = 44	(4) D :	
	(1) Cyclostomata	(2) Ostracodermi	(3) Gnathostomata	(4) Pisces	
64.	=		he members of ophidia		
<i></i>	(1) Hatteria	(2) Lepidosiren	(3) Latimeria	(4) Tylatotriton	
65.	, ,	ls of rabbit pour their s	_		
	` '	(2) Ductus cholidocu	` '	(4) Naso-platine duet	
66.	During oxygen transport the Oxyhaemoglobin at the tissue level liberates oxygen to the cells due to:				
		n is high and CO ₂ is lo		•	
	(2) O ₂ concentration is low and CO ₂ is high				
	(3) O_2 tension is low and CO_2 tension is high				
	(4) O ₂ tension is high and CO ₂ tension is low				
67.			ttached to the papillary	muscles by:	
	(1) Chordae tendin		(2) Purkinje fibres		
	(3) Columnae carno		(4) Bundle of His		
68.	In the nephron of rabbit, reabsorption of glucose occurs in:				
	(1) Descending lim	-	(2) Proximal convolu		
	(3) Distal convoluted tubule (4) Ascending limb of Henle's loop				
69.	In rabbit, the acidity in the urethra is neutralized by the secretions of :				
	(1) Perineal glands		(2) Rectal glands		
	(3) Gall bladder		(4) Cowper's glands		
70.	The gestation period of cow is:				
	(1) 30 days	(2) 270 days	(3) 280 days	(4) 300 days	
71.	In a cross between individuals with genotypes Tt.Rr., if the resulting number of offspring is 16, identify the number of gynotypes with TtRr and TtRR amongst them:				
	(1) 1& 2	(2) 2 & 3	(3) 3 & 1	(4) 4 & 2	
72.	A population is in Hardy-Weinberg equilibrium for a gene with only two alleles. If the gene frequency of an allele N is 0.7, genotupe frequency of 'Aa' is:				
	(1) 0.21	(2) 0.42	(3) 0.36	(4) 0.7	
73.	What percentage of homozygous Rh ^{-ve} will be born amongst 4 children of a couple where the husband				
	is heterozygous for Rh ^{+ve} and wife is homozygous for Rh ^{-ve} gene?				
	(1) 25%	(2) 50%	(3) 75%	(4) 100%	
74.	In protein synthesis	s, the initiator codon is	: :		
	(1) AM	(2) AGe	(3) AAT	(4) AUG	
75.	A couple whose so	ns are color blind with	AB blood group, identi	fy the parents from the following:	
	(1) Mother color blind with 'A' blood group; and Father normal with blood group 'B'				
	(2) Mother normal with blood group 'A' and Father color blind with blood group 'B'				
	(3) Mother color blind with blood group 'B', and Father normal with blood group 'B'				
	(4) Mother normal with blood group 'A', and Father color blind with blood group 'B'				

(3) Stabilizing selection (4) Sympatric speciation

79. The Mediterranean type of popular fowls are called:
(1) White Leghorn (2) New Hampshire
(3) Plymouth rock (4) Rhode Island Red

80. The antibody dependent cytotoxicity is seen in;
(1) Generalised anaphylaxis (2) Local anaphylaxis
(3) Non-compatible blood transfusion (4) Immune complex reaction

ANSWERS

(46) 3

(56) 1

(66)3

(76) 1

(45) 3

(55)2

(65)3

(75) 1

(2) Theory of special creation

(4) Theory of pangenesis

(2) Diversifying selection

(47) 4 (48)2

(57) 4 (58) 2

(67) 1 (68) 2

(77) 1 (78) 2

(49) 2 (50) 2

(59) 1 (60) 3

(69) 2 (70) 3

 $(79)\ 1\ (80)\ 3$

(2) Tail of Macropus

(4) Flipper of whale

76.

77.

78.

Creation of new taxa is focussed in:

An example of vestigial organ is:

Adaptive Radiation is an example for:

(1) Macro evolution

(1) Wing of Apteryx

(3) Eyelid of man

(41)4

(51)3

(61)3

(71)4

(3) Sympatric speciation

(1) Directional selection

 $(42)\ 1$

(52)3

(62) 3

(72) 2

(43)4

(53) 2

(63) 2

(73) 2

(44) 2

(54) 3

(64) 2

(74)4