

## ZOOLOGY 2002

51. The stimulation of which receptors bring, about Micturation in rabbit?  
(1) Stretch (2) Tango (3) Olfactory (4) Gustatory
52. If alpha cells in the pancreas of an adult rabbit are destroyed, the process affected is :  
(1) Proteolysis (2) Cytolysis (3) Glycogenesis (4) Glycogenolysis
53. The hormone used for suppressing allergies, rheumatoid arthritis and tissue inflammation is :  
(1) Mineralo corticoid (2) Glucocorticoid (3) Thyroxin (4) Adrenalin
54. The number of lobes in the left lung of rabbit  
(1) 2 (2) 3 (3) 4 (4) 5
55. In rabbit ginglymoid joint is found in, both:  
(1) Elbow & shoulder (2) Knee & ankle  
(3) Elbow & knee (4) Atlas & odontoid process
56. Loreal pit in vipers act as which receptor?  
(1) Photo (2) Thermo (3) Auditory (4) Gustatory
57. Feathers seen only in nestlings:  
(1) Contour (2) Filoplumes (3) Quill (4) Down
58. Reptilian feature of Archaeopteryx ?  
(1) Feathers with barbules (2) Presence of abdominal ribs  
(3) "U" shaped furcula (4) Presence of a beak
59. For a gene with two alleles, if the gene frequency of the recessive gene is 0.2, what is the genotypic frequency of homozygous dominant?  
(1) 0.064 (2) 0.8 (3) 0.64 (4) 0.32
60. Darwinian fitness is lowered from minimum to zero, to check the undue accumulation of deleterious mutations  
(1) Directional selection (2) Normalising selection  
(3) Cladogenesis (4) Phyletic change
61. An example for holandric inheritance is :  
(1) Epidermolysis (2) Turner's syndrome (3) Haemophilia (4) Webbed toes
62. A male child is colour blind and his blood group is "AB". Identify the parents from the following pairs :  
(1) Father-Normal vision, Blood group "A" Mother-Colour blind, Blood group "O"  
(2) Father-colour blind, Blood group "O" Mother-colour blind. Blood group "AB" .  
(3) Father-Normal vision, Blood group "A", Mother-colour blind, Blood group "B"  
(4) Father - colour blind, Blood group "O" Mother-Normal vision, Blood group-"B"
63. When one gene influences the expression of another non-allelic gene it is termed as :  
(1) Epistasis (2) Polymultiple allelism (3) Segregation (4) Pleiotropy
64. An example for sex Influenced inheritance  
(1) Haemophilie. (2) Colour blindness (3) Baldness (4) Down's syndrome
65. A fresh water fish:  
(1) Scylla serrata (2) Paenaeus indicus (3) Cuprinuscarpio (4) Sardinella longiceps
66. The drug used for deworming in poultry is :  
(1) Antihistamine (2) Antiviral (3) Antihelminthic (4) Antibiotic
67. "Bombay duck" is :  
(1) Harpadon nehereus (2) Hilsa hilsa  
(3) Oreochromis mossambicus (4) Pediceps ruficolis
68. Separation of sick and non-productive birds from healthy and productive birds is known as :

- (1) Deworming      (2) Culling                      (3) Dubbing (4) Cannibalism
69. The female fish which keeps the fertilized eggs guarded in its mouth (parental care)
- (1) *Thunnus albacares*    (2) *Clarias batrachus*  
(3) *Oreochromis mossambicus*    (4) *Cyprinus carpio*
70. "Western Blot" test is done for the confirmation of :
- ( 1) Malaria                      (2) Filaria                      (3) Anaemia                      (4) AIDS
71. *Trichonympha* lives as a symbiont in the alimentary canal of :
- (1) Earthworms      (2) Termites                      (3) Snails                      (4) Hermit Crabs
72. *Ceratium* is a :
- (1) Dinoflagellate      (2) Diatom                      (3) Slime mould                      (4) Sporozoan
73. The molluscan which is unisexual with a single gonad and veliger larva in its life history is :
- (1) *Sepia*                      (2) Octopus                      (3) *Loligo*                      (4) Dentalium
74. The animal whose body wall secretes thick covering called "Lorica" :
- (1) *Polystomella*      (2) *Tubifex*                      (3) *Brachionus*                      (4) Loris
75. Aristotle's lantern is useful in :
- (1) Photoreception      (2) Chewing                      (3) Excretion                      (4) Respiration
76. 'M' cells (Mesoblast cells) play an important role in the development of which body cavity :
- (1) Schizocoelom      (2) Pseudocoelom                      (3) Enterocoelom                      (4) Coelenteron
77. Development of mesoderm in the form of muscles in body wall, leaving the alimentary canal non-muscular is the feature of :
- (1) Acoelomates      (2) Pseudocoelomates      (3) Enterocoelomates      (4) Schizocoelomates
78. The structure which join two bones at joints are made up of :
- (1) Elastic fibres      (2) Collagen fibres                      (3) Fibrocytes                      (4) Chondrocytes
79. The flagellum in *Astasia* is :
- ( ) Pantonematic      (2) Acronematic                      (3) Pantacronematic                      (4) Stichonematic
80. The 'cyst wall of *Euglena* is made up of
- (1) Carbohydrates      (2) Lipoproteins                      (3) Lipids                      (4) Histones
81. The scientific name of the lung fluke of man is :
- (1) *Hymenolepis nana*    (2) *Schistosoma haematobium*  
(3) *Pargonimus' vestermani*    (4) *Echinococcus granulosus*
82. *Plasmodium falciparum* causes which type of malaria ?
- (1) Quartan                      (2) Pernicious                      (3) Tertian                      (4) Benign tertian
83. Schuffner's dots produced by *Plasmodium* are :
- (1) Reserve food      (2) Antibodies                      (3) Hormones                      (4) Antigens
84. The association between Barnacles and *Limulus* is :
- (1) Symbiosis    (2) Antagonism  
(3) Ectocommensalism    (4) Endocommensalism
85. The association between *Sphaerospora polymorpha* and *Nosema notabilis* is :
- (1) Hyperparasitism    (2) Commensalism  
(3) Symbiosis    (4) Mutualism
86. Blood glands of *Pheretima* are located in which segments ?
- (1) 1, 2 & 3                      (2) 3, 4 & 5                      (3) 4, 5 & 6                      (4) 10, 11 & 12
87. Phaeosome in earthworm is a :
- (1) Hormone                      (2) Nephridium                      (3) Pigment                      (4) Lens
88. The silicates consumed along with food by *Pheretima* are excreted by :
- (1) Flame cells                      (2) Chloragogen cells      (3) Intestinal cells                      (4) Basal cells

89. Nector is converted into honey in the  
 (1) Nectories of flowers (2) Beehive chambers  
 (3) Crop of worker bee (4) Stomach of queen bee
90. Dermatobiasis of cattle is caused by:  
 (1) Maggots of bot fly (2) Wiggler of mosquito  
 (3) Nits of head louse (4) Drones of honey bee
91. Peritrophic membrane is secreted in which part of Cockroach?  
 (1) Tracheal tubes (2) Salivary glands (3) Mesenteron (4) Brood pouch
92. The glands present between the 5<sup>th</sup> and 6th abdominal segment of Cockroach:  
 (1) Salivary (2) Blood (3) Pharyngeal (4) Stink
93. When locomotory speed of animal I. influenced by light rays, the response is known as:  
 (1) Phototaxis (2) Photokinesis (3) Phototrophism (4) Photosynthesis
94. The plasmid P<sup>BR</sup> 322 used In biotechnology is :  
 (1) Yeast (2) M32phage (3) Parasite (4) Cloning vehicle
95. Silicosis is caused by  
 (1) Acid rains (2) Depletioin of Ozone  
 (3) Inhalation of aerosols (4) Inhalation of sulphur dioxide
96. The area where wild populations traditional life styles and genetic resources as protected is :  
 (1) Biosphere reserve (2) Manipulation zone  
 (3) Core zone (4) Buffer zone
97. Mode of feeding in Tunicates :  
 (1) Macrophagus (2) Parasitic (3) Ciliary filter (4) Myxotrophic
98. The aquatic organism with a prehensile tail is :  
 (1) Exocoetus (2) Hippocampus (3) Macaca (4) Chameleon
99. Soluble fibrinogen is converted into insoluble fibrin by the action of  
 (1) Thromboplastin (2) Cephalin (3) Heparin (4) Thrombin
100. Valve of Thebesius is present in the heart of:  
 (1) Fish (2) Frog (3) Chameleon (4) Rabbit.

## ANSWERS

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|--------|--------|--------|--------|---------|
| (51) 1 | (52) 4 | (53) 2 | (54) 1 | (55) 3  |
| (56) 2 | (57) 4 | (58) 2 | (59) 3 | (60) 2  |
| (61) 4 | (62) 3 | (63) 1 | (64) 3 | (65) 3  |
| (66) 3 | (67) 1 | (68) 2 | (69) 3 | (70) 4  |
| (71) 2 | (72) 1 | (73) 4 | (74) 3 | (75) 2  |
| (76) 1 | (77) 2 | (78) 1 | (79) 4 | (80) 1  |
| (81) 3 | (82) 2 | (83) 4 | (84) 3 | (85) 1  |
| (86) 3 | (87) 4 | (88) 2 | (89) 3 | (90) 1  |
| (91) 3 | (92) 4 | (93) 2 | (94) 4 | (95) 3  |
| (96) 1 | (97) 3 | (98) 2 | (99) 4 | (100) 4 |