

Name: _____

**Animal Biology, Exam II
Spring, 2004**

Instructions: There are 50 questions. Pick the *best* answer for each one. Please make sure that you fill out your scantron correctly. *In case of discrepancy, the answer on the scantron will be considered your answer.* When you're finished, please hand in the scantron. You may keep the exam sheet. **Good luck!**

- ___ 1. Characterized by having mesoderm, being acoelomate, and having a single gut opening:
a) Nematodes b) Annelids c) Cnidarians d) Platyhelminthes e) Vertebrates
- ___ 2. Turbellarians:
a) are parasites with more than one host b) are parasites with a single host
c) are parasites in humans d) a & c e) are not parasites
- ___ 3. In schistosomiasis the eggs leave the body with:
a) urine b) feces c) saliva d) air expelled through the lungs
e) don't leave the body - they encyst in muscle
- ___ 4. A characteristic of the Nematodes not shared by Annelids or Platyhelminthes:
a) longitudinal muscles only b) coelomate c) pseudocoelomate d) a & b e) a & c
- ___ 5. In trichonella, the larva leave the body with:
a) urine b) feces c) saliva d) air expelled through the lungs
e) don't leave the body - they encyst in muscle
- ___ 6. Polychaetes have:
a) a true coelom b) no permanent gonads c) parapodia
d) metanephridia e) all of the above
- ___ 7. Rotifers share which characteristic with Nematodes:
a) having a crown of cilia b) having a mastax c) being coelomate
d) being pseudocoelomate e) none of the above
- ___ 8. Rotifers have all of the following characteristics except:
a) having a crown of cilia b) having a mastax c) being mostly microscopic
d) having many forms with parthenogenesis e) having a primitive circulatory system
- ___ 9. Mollusks with a single tusk like shell:
a) Scaphopoda b) Polyplacophora c) Bivalves d) Gastropoda e) Cephalopoda
- ___ 10. The largest squid we know about was found in New Zealand and was about:
a) 17 inches b) 10 feet c) 100 feet d) 17 meters e) 1 km
- ___ 11. Some Gastropods can be deadly to humans:
a) True b) False
- ___ 12. Cephalopods have all of the following characteristics except:
a) a closed circulatory system b) tentacles c) intelligence (compared to other mollusks)
d) a beak e) a benthic habitat

- ___ 26. Sea lilies:
 a) are mobile, and belong to the class Holothuroidea
 b) are sessile, and belong to the class Crinoidea
 c) are mobile, and belong to the class Crinoidea
 d) are sessile and belong to the class Holothuroidea
 e) none of the above
- ___ 27. The Tunicates are:
 a) mostly marine and sessile b) mostly terrestrial and mobile
 c) mostly marine and mobile d) mostly terrestrial and sessile e) none of the above
- ___ 28. Characteristics of Vertebrates include all of the following except:
 a) a well developed nervous system b) a skull c) a closed circulatory system
 d) radial symmetry e) none of the above
- ___ 29. Hagfish:
 a) are active predators, chasing and killing their prey
 b) eat by attaching to fish and sucking out body juices
 c) eat by burrowing into (usually) sick fish and eating the fish from the inside out.
 d) are filter feeders
 e) are closely related to leeches
- ___ 30. Sharks have all of the following except:
 a) gill slits b) spiral valve c) receptors for electrical signals d) lateral line
 e) swim bladder
- ___ 31. The subclass Actinopterygii includes:
 a) lung fish and ray-finned fish b) lung fish and lobe finned fish
 c) lobe-finned fish and ray-finned fish d) ray-finned fish only
 e) all fish
- ___ 32. Caecilians:
 a) are found in North America b) look like small salamanders c) are related to worms
 d) are found in the tropics e) none of the above
- ___ 33. Amphibians need water because:
 a) their eggs are not water tight b) they lose water through their skin
 c) they swim d) all of the above e) a & b
- ___ 34. Reptiles have all of the following except:
 a) scaly skin b) internal fertilization c) no larval stages
 d) eggs with shells (if they lay eggs) e) there are no exceptions on this list
- ___ 35. Snakes have *none* of the following except:
 a) legs b) eyelids c) ears d) lungs e) pineal eye
- ___ 36. Turtles and birds share the following character:
 a) feathers b) endothermy c) adaptations for extreme weight loss
 d) no teeth e) a large keel
- ___ 37. Mammals are divided into two subclasses:
 a) Theria and Metatheria b) Theria and Prototheria c) Eutheria and Theria
 d) Eutheria and Metatheria e) Eutheria and Prototheria

- ___ 38. In the case of true placental mammals (mammals with a real placenta), the placenta forms from the:
a) yolk sac b) allantois c) amnion d) chorion e) shell
- ___ 39. The most successful order of mammals are the:
a) Rodents b) Carnivores c) Bats d) Gazelles e) Birds
- ___ 40. An example of the order Artiodactyla would be a:
a) mouse b) human c) bat d) sloth e) deer
- ___ 41. The male of this mammal is has a venomous spine on it's rear leg:
a) human b) bat c) duck-billed platypus d) echidna e) pangolin
- ___ 42. Coprolites are:
a) fossilized footprints b) fossilized bones c) fossilized professors d) fossilized feces
e) none of the above
- ___ 43. Carbon 14 decays into:
a) Carbon 12 b) Oxygen 12 c) Lead 206 d) Nitrogen 14 e) Helium 20
- ___ 44. The earliest animal fossils date from about:
a) 4 billion years ago b) 3 billion years ago c) 250 million years ago
d) 700 million years ago e) 10 years ago
- ___ 45. Also known as the age of fish, this period lasted from about 409 to 363 million years ago:
a) Cambrian b) Ordovician c) Silurian d) Devonian
e) Carboniferous
- ___ 46. The age of Dinosaurs is also known as the (careful, a bit tricky):
a) Mesozoic era b) Cretaceous period c) Jurassic period
d) Cenozoic era e) Carboniferous period
- ___ 47. The highlands of Scotland are actually a continuation of the:
a) Rocky mountains b) Alps c) Appalachians d) Himalayas
e) are not a continuation of anything
- ___ 48. Known from fragments of numerous specimens and from footprints in the Olduvai gorge, this is the first really well known hominid:
a) *Australopithecus anamensis* b) *Australopithecus africanus*
c) *Australopithecus afarensis* d) *Homo habilis* e) *Ardipithecus ramidus*
- ___ 49. The first evidence for stone tools is in:
a) *Australopithecus anamensis* b) *Homo heidelbergensis* c) *Homo habilis*
d) *Australopithecus africanus* e) *Homo erectus*
- ___ 50. These were probably killed off by modern humans:
a) *Homo heidelbergensis* b) *Homo sapiens neanderthalensis* c) *Homo habilis*
d) *Cro-Magnon* e) *Australopithecus afarensis*
- ___ 51. Extra credit. This exam is version A. To get two extra credit points, mark "A" on your scantron for question 51.

Your score will be posted on the web using your id # assigned in the first exam.