OLABISI CNABANJO UNIVERSITY, AGO-IWOYE DEPARTMENT OF PLANT SCIENCE AND APPLIED ZOOLOGY RAIN SEMESTER EXAMINATION 2005/2006 SESSION BIO 104 (ANIMAL DIVERSITY) Exam takon Fobruary 2007

1. The correct hierarchy in the Animal kingdom is: (a)iPhylum, Kingdom, Order, Class, Family (b)Kingdom, Phylurn, Order Class Family (c) Kingdom, Phylum, Class, Family Order (d) kingdom, Phylum, Class Order, Family

2. The Family name ends with (a)- oidea (b.)-idea (c)-inae (d.)-sis

3. Anima's are given two-part names. The first name is [a) Genus (b) Family (c) Order (d) Species

4. The correct scientific name of man is (a) Homo Saplens (b) homo Sapiens (c) Homo sapiens (d) homo sapier.s

5. The author of the binomial system of nomenclature is (a) Louis Pasteur (b) Charles Darwin (c) Lammark (d)

Carl Linnaeus

6. The Superphylum Afthropoda includes: (a) Nematoda, Crustacea, Uniramia, Chelicerata (b) Crustacea, Uniramia, Chelicerata, Onychoghora (c)Rotifera, Crustacea, Annelida, Chelicerata (d)Portiera, Annelida, Zentraming (crustacia, Helicerata, Tralabitomorphia) Nematoda, Chellcerata

7. In the animal classification chart, animals with 3 body layers are called: (a)Diploblastica/Radiata

(a) Triploblastica/ Bilateria (c) Triploblastica/Bilaterial (1) Diploblastical/Radiata 8. Animals with true coelom in their body cavity are called (a) Pseudocoelomata (b) Accelomata (c) Coelomata

Eucoelomata. Animais with 2 body layers are: (a)Radiata/Bilaterial (b)Radiata/Coelenterata (c)Trigloblastical/Bilateria

(d)Raciata/Diploblastica 10. Which of the following does not belong to the grade Radieta? (a) Hadra (b) Plariaria (c) Obelia (c) Eudrilus

11. The Kingdom Animalia consists of: (a) One Kingdom (b) Two Kingdoms (c) Two SubKingdoms (d) One Kingdom and 3 branches

12. Which of the following does not belong to the worm Phyla? (Chidaria (b)Nematoda (c)Annelida (d)Nernalomorpha

13. Some Nematoda are protandric. It means: (a)male gonads mature before female gonads (b)female gonads mature before male gonads (c)both gonads mature at same time (d)gonads are lacking.

14. Which of the following-is not worm-like? (a) Ascaris (b) Ancylogioma (c) Drangunculus (d) Piglodina

15. Which of the following is free living? (a) Toeple (b) Turbelled (c) Fasciole (d) Trichinella

16. The Flatyheimluthes are advanced over the Chidarlans because: (a)they are bilaterally symmetrical (b) they are triploblastic (c) they have definite organs (d) all of the above reasons we

17. Which of these animals are metamerically segmented? (a) Taenla (b) Ascaris (a) Hyperiodilus (d) Fesciola: 18. The epidermis in Nematoda is syncytial because (a)the cells are nucleated (b) the adjacent cells are not distinc (c)the cells form a tissue (d)the cell nucleus lacks a membrane.

19. The prostomium in the Annelida is the (2) first true segment (b) second segment (c) third segment (d) pre-ora

20. The excretory organs in the Annelida is (a)nephridium (b)kidney (c)contractile vacuole (d)flame celi

21. The pressitic member in the Annelida has for attachment (a)cilla (b)pseudopodia (c)tentacles (c)suckers. 22. The outer rings on the body of Hirudo is (a) the limit of a segment (b) a septum (c) an annulus (c) an invagination of the outer cell.

23. Which of these arthropods possess biramous appendage? (a)Onychophora (b)Myriapoda (c)Crustacea* (d)Hexapoda/Insecta.

24. The body wall (somatic) muscles are arranged (a)longitudinally (b)circularly (c)in bundles around appendages (d)in a diffuse manner.

25. The exoskeleton in the Arthropoda is for (a)waterproofing (b)attachment of muscles (c)protection (a) all of the above.

26. The heemocoel in the Arthropoda is (a)hydrostatic skeleton (b) the coelom filled with blood (c)excretory in function (d)coelom divided by septa.

27. The abdominal segments in Trilobitomorpha are fused and called (plpygidium (b)prostomium (c)peristomium (d)opisthosoma.

28. The head in Trillobitomorpha is called (a)prosoma (cephalon) (b)cephalothorax (c)carapace (d)trunk: 29. The characteristic of the Hexapoda/Insecta that distinguishes it from other Arthropods is the division of the body into (a)head and trunk (b)prosoma and opistiosoma (c)head, thorax and abdomen (d)cephalothorax

30, Which of these arthropods is characterised by the possession of a pedicel? (a)scorpions (b)Miles and ticks

. 31. In the Chelicerata, the body is (a)divided into head, thorax and abdomen (a)divided into prosoma (cephelothorax) and opisthosoma (c)divided into cephalon and pygidium (d)not divided out all segments

32. Insects have (a)3 pairs of walking legs (b)4 pairs of walking legs (c)numerous walking legs (a)6 pairs of

33. White not the following is not a class in Echinoderniala? (a) Asteroidea (prarachnida (c) Echinoidea (d)C inoidea. 34. The starfish (Asteroidea) typically has (a)4 radiating arms (b)6 radiating arms (a)5 radiating arms (d)7 radi iling arms. 35. The mouth of the starfish is located (a)on the centre of the central disc (b) midway on one of the radiating arm; (c)between two arms (d)the tip of one of the arms. 36. The organ of locomotion in Echinodermata is (a) illia (b)pseudopodia (a) lube feet (d)parapodia 37. Ect inoderms are called deuterostomes becausi Jenine mouth does not develop from the blastopore (b)the mo th is overhung by a segment (c)the mouth avelops on the oral surface (d)the mouth has a double OPF ning. 38. Wr ch of the following characteristics is peculi if to the Echinoderms? (a)coelom (b)haemocoel (c)water - va: bular system (d)blood vascular system. 39. In : hylum Chordata, the nerve cord is (a)dors al (b)hollow(tubular) (c)dorsal, hollow and below the no schord (a)dorsal, hollow and above the natochord. 40. Wi ich of the following does not belong to phylum Chordata (a) Fish (b) Starlish (c) Bird (d) Rabbit 41. The class of fish without law is (a) Agnatha b) Chandrichthyes (c) Placodermi (d) Osteichthyes 42. Fish respire by (a)lungs (b)gills (c)trachea (d)skin 43. Ar iphibians are characterised by (a)possession of scales (b)possession of gills and lungs (c)possession of lui gs (d)absence of all of the above. 44. The forelimbs of birds are adapted for (a) walking (b) flying (c) catching prey (d) perching. 45. The glands present in the skin of mammals are (a) sweat glands (b) sweat and sebaceous glands (c mucous glands (d)poison glands 46. Ti ree subclasses of mammals are (a) Prototheria, Metatheria and Eutheria (b) Prototheria, Metatheria and A ura (c) Metatheria, Eutheria, Placodermi and Prototheria (d) Eutheria, Prototheria, Chondrychthyes and A lura. 47. Tie genera in family Hominidae to which man beiongs is (a) Australopithecus (b) Plesianthropus (c) Homo (t) Pilliecanthropus. 48. V hich of the following is not a tetrapod (a)rat 1 isnake (c)bird (a)man. 49. V /hich of the following is not a toad? (a) Hylu (b) Bulo (b) Kenopus (d) Rena 50. The ability of an organism to understand and respond to a new situation/solve a problem is a function of () Adaptability (b) Size (c) Intelligence (d) Densky (population). 51. he fusion or grouping of segments together is (a) lagmosts (b) Cephalisation (c) Neurulation (d) Axiation. 52. I ach component of the above is a (an) (a) Segment (b) Cell (b) l'agma (d) Annulus. 53. he coelom is a (a) spacious cavity within the body filled with fluid (b) space within a cell (c) vacuale filled vith fluid (d)vascular tissue. 54. When the coelors is reduced and filled with blood, it is called (a) Blastocoel (b) Haemocoel (c) Haemolymph. d)Lymph. 55. Jaemocoel occurs in (a) Annelida (b) Turbellaria (a) Crustacea (d) Platyhelminthes. (4) 56. The arrangement of the muscles in coelomate animals is (a)loose (b)in bundles (c)in layers (d)diffuse. 57. n metamerism, the segments are (a)of different ages (b)of different sizes (a)independent of each other d)of the same age. 58. Cophalisation arises as a result of the (a)division of the body into segments (b)Concentration of sensory cells in the anterior part of the body (c) Formation of the coelom (d) Fusion of segments. 59. The arthropod body is characterised by sociale forming exoskeleton (b)paired jointed appendages (c)grouping of muscles into bundles (a) all of the above characteristics. 60. The coelom in the arthropods is (a) spacious and filled with blood (b) reduced and filled with blood (c)reduced and filled with excretory fluid (d)spacious and lacks any fluid. 61 Axiation means (a)there is an anterior-posterior orientation (b)there is an axis around which an animal revolves (c)there is an axis dividing the animal body (d)there is presence of chitinous exocuticle. 62 In coelomate animals (a)the fluid is required for excretion (b)the fluid is required for growth cetthe fluid necessitates the development of a transport system (d) the fluid itself is the transportation medium. 63 Coelomate animals exhibit (a)radial symmetry (b)bilateral symmetry (c)helicyclic symmetry (d)none of the 64 The appendages in arthropoda are (a)paired (b)jointed (c)paired and jointed (d)paired, jointed and biramous. 61.. Coelom arises as a result of a split in (a) Mescderm (b) Ectoderm (c) Endoderm (a) Mesoglea of Organs are surrounded by the coelom. Hence the muscles of the organs (a)can contract independent of the body wall muscles (b)cannot contract (c)contract simultaneously with body wall houseles (d)are syncytial.

6' . The organ of the animal responsible for analysing information from the environment is (a) The epidermis (b) The endodernis (c) the brain are performed by (a) medulia oblongate (b) cerebral hemisphere (c)

ANSWERS TO 2005/2006 BIO 104 Rain Semester Examination Grant Semester Examination

