



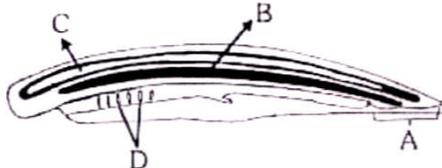
BIPC

Living World & Animal Kingdom (AD-II) ZOOLOGY

WORK SHEET - 2

- Select a set which does not possess defining properties of living organisms?
 - 1) Consciousness, metabolism
 - 2) Cellular organisation, metabolism
 - 3) Reproduction, growth
 - 4) Cellular organisation, consciousness
- Match the column
Column - I Column - II
A) Genus i) Group of related orders
B) Family ii) Group of related families
C) Order iii) Group of related genera
D) Class iv) Group of related species
A B C D A B C D
1) i ii iii iv 2) iv ii i iii
3) iv iii ii i 4) iii ii i iv
- All living organisms are linked to one another because:
 - 1) They have common genetic material of the same type
 - 2) They share common genetic material but to varying degrees
 - 3) all have common cellular organisation
 - 4) All of the above
- Which of the following is a defining characteristic of living organisms?
 - 1) Growth 2) Ability to make sound
 - 3) Reproduction
 - 4) Response to external stimuli
- As we go from species to kingdom in a taxonomic hierarchy, the number of common characteristics
 - 1) will decrease 2) will increase
 - 3) remain same 4) may increase or decrease
- Which of the following is correct with respect to taxonomical hierarchy?
 - 1) higher the category, lower is the number of organisms in it.
 - 2) Lower the category, higher is the number of organisms in it
 - 3) higher the category, fewer is the number of common characters
 - 4) higher the category, more is the number of common characters
- Herbaria and Museums contain specimens whereas in botanical gardens & zoo's possess specimens.
 - 1) Living & Living 2) Dead & Dead
 - 3) Living & Dead 4) Dead & Living
- Which one of the following animal is Deuterostomic and radially symmetrical?
 - 1) Sea walnut 2) Sea anemone
 - 3) Ctenoplana 4) Asterias
- Which one of the following group of animals is schizocoelomate and triploblastic?
 - 1) Round worms 2) Echinodermates
 - 3) Molluscans 4) Flat worms
- Metameric segmentation in the animal hierarchy first developed in phylum?
 - 1) Ctenophora 2) Chordata
 - 3) Annelida 4) Arthropoda
- The phyla showing radial symmetry
 - 1) Echinodermata, coelenterata and ctenophora
 - 2) Porifera, mollusca and echinodermata
 - 3) Protozoa and coelenterata
 - 4) Coelenterata, ctenophora and annelida
- Which of the following is a chordate feature and not shared by the non-chordates?
 - 1) Metamerism 2) Axial organization
 - 3) Bilateral symmetry 4) Pharyngeal gill slits
- Which of the following statements (i-v) are correct?
 - i) The pelvic fins of female sharks bear claspers
 - ii) Dorsal myogenic heart, ventral ganglionated nerve cord seen in chordates
 - iii) All chordates possess vertebral column
 - iv) In non-chordates, central nervous system is ventral, solid, double and ganglionated
 - v) Pinnae present in mammals
 - 1) ii, iv and v 2) i, iii and v
 - 3) iii, iv and v 4) only iv and v
- The following statement are associated with the occurrence of notochord. Identify the incorrect statement.
 - 1) It is present only in larval tail in ascidians
 - 2) it is replaced by a vertebral column in adult frog
 - 3) it is absent throughout the life in humans from the very beginning
 - 4) It is present throughout life in Amphioxus
- Which one of the following categories of animals is correctly described with no single exception in it?
 - 1) In chondrichthyes notochord is persistent throughout life.
 - 2) All mammals are viviparous and possess diaphragm for breathing.
 - 3) All Chordates with paired appendages/ locomotory structure.
 - 4) All reptiles possess scales, have a three chambered heart and are cold blooded (poikilothermal).
- Which one of the following is not a characteristic of cyclostomes?
 - 1) Cyclostomes have a sucking and circular mouth without jaws
 - 2) Cranium and vertebral column are bony
 - 3) Circulation is closed type
 - 4) Cyclostomes are marine but migrate for spawning to fresh water

17. Which of the following pair are correctly matched?
 A) Protochordates - *Lancelet*
 B) Amniotes - *Struthio*, *aptenodytes*, *Chelone*, *Equus*
 C) Cartilaginous Fishes - *Scoliodon*, *Trygon*, *Hippocampus*
 D) Tunicates - *Salpa*, *Doliolum*, *Ascidia*
 1) A, B and D 2) A, C and D
 3) A, B and C 4) Only A and B
18. In which one of the following chordate all the three characters are found throughout the life?
 1) *Doliolum* 2) *Ascidia*
 3) *Balanoglossus* 4) *Branchiostoma*



19. A schematic representation of a typical chordate is shown in the above figure. The structures marked A, B, C and D are respectively
 1) Notochord, Nerve cord, Intestine and gill slits
 2) Postanal part, Gill slits, Nerve cord and Notochord
 3) postanal part, nerve cord, Notochord and Gill slits
 4) Post anal part, Notochord, Nerve cord and Gill slits
20. The members of class osteichthyes are called bony fishes having numerous distinguishable character but which of the following can not be considered as their character?
 1) Skin is covered with cycloid / Ctenoid scales
 2) Air bladder is present which regulates buoyancy
 3) In males pelvic fins bear claspers
 4) Mouth is mostly terminal
21. *Rana* and *Hyla* are the members of class-Amphibia bearing which of the following characters?
 1) A tympanum represents the ear
 2) These are cold blooded animals
 3) They have moist skin without scales
 4) All of these
22. Which one of the following characters is not typical of the class Aves?
 1) The long bones are hollow with air cavities
 2) They are oviparous and development is direct
 3) Air sacs connected to lungs supplement respiration
 4) The Avian skin is dry with scales

23. *Corvus*, *Psittacula* and *Pavo* are the members of class Aves. Select the characters those are exclusively found in class-Aves:
 1) A cover of soft feathers is present all over the body of all the birds
 2) They are warm-blooded
 3) They are oviparous and development is direct
 4) They have 4-chambered heart
24. Distinguishing characters of mammals are
 1) Diaphragm is present in the body cavity
 2) Mammary glands are found in females for baby feeding
 3) Their body is covered by a coat of hair
 4) All of these
25. Select the incorrect statement from the following
 1) Cyclostomates have an elongated body bearing 6-15 pairs of gill slits
 2) All chordates are vertebrates
 3) Bony fishes have four pairs of gills with operculum
 4) reptiles are poikilotherms and having cornified skin.
26. Which one of the following is a correct matching set of class and its examples?
 1) Mammalia - *Ornithorhynchus*, *Pteropus* and *Aptenodytes*
 2) Reptilia - *Chameleon*, *Calotes*, *Neophron*
 3) Amphibia - *Rana*, *Ichthyophis*, *Crocodilus*
 4) Osteichthyes - *Clarias*, *Pterophyllum*, *Catla*
27. Which one of the following class is correctly matched with its general characteristics?
 1) Aves - The hind limbs generally have scales and are modified for flying
 2) Reptilia - Snakes and lizard shed their scales as skin cast
 3) Cyclostomata - skin is covered with scales
 4) Osteichthyes - Gill slits are separate and without operculum
28. Which one of the following is a matching pair of body feature and the animal possessing it?
 1) Vertebral column - *Salpa*, *Petromyzon*
 2) Gnathostomata - *Corvus*, *Myxine*
 3) Air bladder - *Labeo*, *Pristis*
 4) Pneumatic bones - *Corvus*, *Columba*
29. Which one of the following groups of animals each is correctly matched with their characteristic feature?
 1) *Rana*, *Clarias*, *Testudo*, *Struthio*-Poikilothermous
 2) *Chameleon*, *Psittacula*, *Salamendra* - Amniotes
 3) *Corvus*, *Columba*, *Camelus*, *Elephas*-Three chamber heart.
 4) *Naja*, *Bungarus*, *Viper* - Poisonous snake
30. Which one of the following is true Fish?
 1) Cuttle fish 2) Hag fish
 3) Dog fish 4) Silver fish

KEY

1	3	2	3	3	2	4	4	5	1	6	3	7	4	8	4	9	3	10	3
11	1	12	4	13	4	14	3	15	1	16	2	17	1	18	4	19	4	20	3
21	4	22	4	23	1	24	4	25	2	26	4	27	2	28	4	29	4	30	3