



VISWASAI MEDICAL ACADEMY

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BIPC

ZOOLOGY

Living World & Animal Kingdom (AD-I)

WORK SHEET - 1

- Non-living things:
 - show extrinsic growth
 - show extrinsic as well as intrinsic growth
 - can perform metabolism
 - show intrinsic growth
- Growth cannot be taken as a defining property of living organisms as:
 - It is found in all living organisms
 - it is found in non-living things also
 - all non-living things grow & show response to external stimuli
 - it is discontinuous
- Metabolic reactions:
 - Can be demonstrated in cell free system
 - Occur in all plants, animals, fungi and microbes
 - Isolated metabolic reactions are surely living reactions
 - more than one option is correct
- Which of the following is not incorrect?
 - The most obvious and technically complicated feature of all living organisms is to sense their surrounding environment and respond to these environmental stimuli
 - Non-living things may show consciousness
 - Cellular organisation is absent in many living organisms
 - Most of the living organisms lack metabolism
- Match the column:

Column - I	Column - II
A) Yeast	i) Asexual spore and fragmentation
B) <i>Amoeba</i>	ii) Binary fission
C) Fungi	iii) Budding
D) <i>Planaria</i>	iv) True regeneration

A	B	C	D	A	B	C	D
1) i	ii	iii	iv	2) ii	iii	iv	i
3) i	iv	iii	ii	4) iii	ii	i	iv
- Which of the following organisms do not reproduce?
 - Infertile human beings
 - Worker bees
 - Mules
 - All are correct
- Animals possess various type of symmetry, select the correctly matched
 - Echinodermates - radial symmetry
 - Arthropods - bilateral symmetry
 - Sponges - mostly asymmetrical
 - All of these
- Select the group of organism given below those have diploblastic members only
 - Ctenoplana*, *Taenia*, *Fasciola*
 - Pennatula*, *Physalia*, *Meandrina*
 - Wuchereria*, *Culex*, *Limulus*
 - Aedes*, *Ascaris*, *Hydra*
- Which one of the following statement is true?
 - All members of Bilateria are always Deuterostomes
 - Eumetazoan are Deuterostomes
 - All acoelomates are Diploblastic
 - All Haemocoelomates are bilateral symmetrical
- Metamerism is found in
 - Arthropoda, annelida, Chordata
 - Mollusca, Porifera, Echinodermata
 - Aschelminthes, Annelida, Chordata
 - Annelida, Arthropoda, Mollusca
- The members of phylum porifera are called sponges, having numerous distinguishable character, but which of the following is considered as their peculiar character?
 - These are diploblastic animals
 - Mostly members are marine and some are fresh water
 - Choanocytes which line the spongocoel
 - Internal fertilization
- Spongilla* and *Euspongia* are the members of phylum porifera, bearing which of the following characters?
 - They have a water transport or canal system
 - These are hermaphrodites with internal fertilization
 - both 1 and 2
 - These are exclusively marine
- The correct set for porifera is
 - Acoelomates, Fresh water, Zooplanktonic, Triploblastic, Cell aggregate body plan
 - Eucoelomates, Marine, Sedentary, diploblastic, blind sac body plan
 - Cellular level of organisation, Mostly Marine, Sedentary, Acoelomate
 - Acoelomates, Marine, Sedentary, Diploblastic, blind sac body plan
- In the evolutionary history of the animal kingdom, which of the following features have evolved for the first time in phylum annelida?
 - Metameric segmentation
 - Organ system level of organisation
 - True coelom
 - closed circulatory system
 - Bilateral symmetrySelect the correct answer
 - a, b & e
 - a, b, c & d
 - a, c & d
 - only a & b
- Consider the following characteristics of organisms
 - Diploblastic body
 - Possessing cnidocytes
 - Presence of both intracellular and extracellular digestion
 - GVC / CoelenteronWhich of the above are characteristics of organism

of coelenterata?

- 1) A & B 2) B & C 3) A & C 4) A, B, C & D

16. Metagenesis in *Obelia* signifies by
 1) Alternation of generation between haploid medusa and diploid polyp
 2) Polyps produce medusa sexually and medusa form the polyps asexually
 3) Alternation of generation between diploid medusa and diploid polyp
 4) All of the above
17. Which of the following pair of animals comprise Comb jellies?
 1) *Balanoglossus* and *Saccoglossus*
 2) *Pleurobranchia* and *Ctenoplana*
 3) Sea anemone and sea pen
 4) sea lily and brittle star
18. *Fasciola* and *Taenia* are the members of phylum platyhelminthes bearing which of the following characters?
 1) They have organ level of organisation
 2) Flame cells help in osmoregulation and excretion
 3) they have dorso-ventrally flattened body
 4) All of the above
19. Which one of the following is a molluscan?
 1) Sea horse 2) Sea lily
 3) Sea mouse 4) Sea hare
20. Which one of the following feature is not applicable to all the three helminthes - *Taenia*, *Fasciola* and *Planaria*?
 1) triploblastic forms
 2) Absence of metamerism
 3) Parasitism
 4) Absence of definite circulatory and respiratory systems
21. Select the option with all pseudocoelomates animals?
 1) *Ascaris*, *Fasciola*, *Taenia*
 2) *Culex*, *Locusta*, *Limulus*
 3) *Wuchereria*, *Ascaris*, *Ancylostoma*
 4) *Nereis*, *Hirudinaria*, *Wuchereria*
22. The members of phylum Aschelminthes are called round worms, having numerous distinguishable character, but which of the following can not be considered as their character?
 1) These are pseudocoelomate animals
 2) They are bilaterally symmetrical
 3) Organ system level of body organisation
 4) Round worms are monoecious
23. An observed collect some sample like *Pheretima*, *Herudinaria* and *Bombyx*, select the common

characters among them:

- 1) Ventral Nerve chord
 2) They show metamerism
 3) Both 1 and 2
 4) Open circulatory system
24. Phylum Arthropoda considered as the largest phylum among the kingdom animalia. They possess which of the following common characters?
 1) They have jointed appendages
 2) Open blood circulation
 3) Both 1 & 2
 4) Excretion takes place through malpighian tubules
25. Which one of the following is not a characteristic of phylum mollusca?
 1) Coelomates 2) Segmentation
 3) Mantle 4) Shell
26. Which type of locomotory organ are found in "Soft bodied animals" ?
 1) Cilia 2) Tube feet
 3) Tentacles 4) Muscular Foot
27. The first deuterostomic animals, possess which of the following common characters?
 1) The adult echinoderms are radially symmetrical but larvae are bilaterally symmetrical
 2) Excretory system is absent
 3) Development is indirect with free swimming larva
 4) All of the above
28. Select the distinguishable characters of echinodermates from Hemichordates
 1) These animals have an endoskeleton of calcareous ossicles
 2) They have water vascular system
 3) The adult echinoderms are radially symmetrical
 4) All of the above
29. Which one of the following is a matching pair of a body feature and the animal possessing it?
 1) Canal system - *Asterias*
 2) Metagenesis - *Obelia*
 3) Dorsal nerve cord- *Pheretima*
 4) Muscular pharynx - *Taenia*
30. Which one of the following group of animals is correctly matched with their two characteristic morphological features?
 1) Pavo, Camelus, Delphinus - Dorsal hollow nerve cord and poikilothermous
 2) *Asterias*, *Ophiura*, *Balanoglossus* and *Saccoglossus* - Enterocoelomate and Deute rostomic
 3) *Ascaris*, *Ancylostoma* and *Pheretima* - Pseudocoelomates and metamerism
 4) *Pila*, *Octopus*, *Apis* and *Bombyx* - Open circulatory

KEY

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

- SETTER: SRI ZV -