ASSIGNMENT QUESTIONS SET – 3 CHAPTER – 7 DIVERSITY IN ORGANISMS

1.	Find out incorrect sentence			
	ukaryotic organisms			
	(b) Whittaker considered cell structure, mode and source of nutrition for classifying			
organisms in five kingdoms				
	(c) Both Monera and Protista may be autotrophic and heterotrophic			
	(d) Monerans have well defined nucleus			
2. Which among the following has specialised tissue for conduction of water?		specialised tissue for conduction of water?		
(i) Thallophyta				
	(ii) Bryophyta			
	(iii) Pteridophyta			
	(iv) Gymnosperms			
	(a) (i) and (ii)			
	(b) (ii) and (iii)			
	(c) (iii) and (iv)			
	(d) (i) and (iv)			
3.	Which among the following prod	uce seeds?		
	(a) Thallophyta	(b) Bryophyta		
	(c) Pteridophyta	(d) Gynmosperms		
4.	Which one is a true fish?			
	(a) Jellyfish	(b) Starfish		
	(c) Dogfish	(d) Silverfish		
5.	Which among the following is ex	clusively marine?		
	(a) Porifera	(b) Echinodermata		
	(c) Mollusca	(d) Pisces		
6.	6. Which among the following have open circulatory system?			
	(i) Arthropoda			
	(ii) Mollusca			

(iii) Annelida

(iv) Coelenterata(a) (i) and (ii)(b) (iii) and (iv)(c) (i) and (iii)(d) (ii) and (iv)

	(a) Arthropoda		
	(b) Annelida		
	(c) Nematoda		
	(d) Echinodermata		
8.	Elephantiasis is caused by		
	(a) Wuchereria		
	(b) Pinworm		
	(c) Planarians		
	(d) Liver flukes		
9.	Which one is the most striking or	(common) character of the vertebrates?	
	(a) Presence of notochord		
	(b) Presence of triploblastic cond	ition	
	(c) Presence of gill pouches		
	(d) Presence of coelom		
10.	Which among the following have	scales?	
	(i) Amphibians		
	(ii) Pisces		
	(iii) Reptiles		
	(iv) Mammals		
	(a) (i) and (iii)		
	(b) (iii) and (iv)		
	(c) (ii) and (iii)		
	(d) (i) and (ii)		
11.	Find out the false statement		
	(a) Aves are warm blooded, egg	laying and have four chambered heart	
	(b) Aves have feather covered b	ody, fore limbs are modified as wing an	d breathe through
	lungs		
	(c) Most of the mammals are vivi	iparous	
	(d) Fishes, amphibians and reptile	es are oviparous	
12.	Pteridophyta do not have		
	(a) root	(b) stem	
	(c) flowers	(d) leaves	
13.	Identify a member of porifera		
	(a) Spongilla		
	(b) Euglena		
	(c) Penicillium		
	(d) Hydra		
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7. In which group of animals, coelom is filled with blood?

14.	Which is not an aquatic animal?		
	(a) Hydra		
	(b) Jelly fish		
	(c) Corals		
	(d) Filaria		
15.	Amphibians do not have the follo	wing	
	(a) Three chambered heart		
	(b) Gills or lungs		
	(c) Scales		
	(d) Mucus glands		
16.	6. Organisms without nucleus and cell organelles belong to		
	(i) fungi		
	(ii) protista		
	(iii) cyano bacteria		
	(iv) archae bacteria		
	(a) (i) and (ii)		
	(b) (iii) and (iv)		
	(c) (i) and (iv)		
	(d) (ii) and (iii)		
17.	7. Which of the following is not a criterion for classification of living organisms?		
	(a) Body design of the organism		
	(b) Ability to produce one's own food		
	(c) Membrane bound nucleus and	cell organelles	
	(d) Height of the plant		
18.	The feature that is not a character	ristic of protochordata?	
	(a) Presence of notochord		
	(b) Bilateral symmetry and coelor	n	
	(c) Jointed legs		
	(d) Presence of circulatory systen		
19.	The locomotory organs of Echino		
	(a) tube feet	(b) muscular feet	
	(c) jointed legs	(d) parapodia	
20.	Corals are		
	(a) Poriferans attached to some solid support		
	(b) Cnidarians, that are solitary living		
	(c) Poriferans present at the sea bed		
	(d) Cnidarians that live in colonie	S	

21.	1. Who introduced the system of scientific nomenclature of organisms		
	(a) Robert Whittaker		
	(b) Carolus Linnaeus		
	(c) Robert Hooke		
	(d) Ernst Haeckel		
22.	Two chambered heart occurs in		
(a) crocodiles (b) fish			
			(c) aves
	(d) amphibians		
23. Skeleton is made entirely of cartilage in			
	(a) Sharks		
	(b) Tuna		
	(c) Rohu		
(d) None of these			
24.	One of the following is not an Annelid		
	(a) Nereis		
	(b) Earthworm		
	(c) Leech		
	(d) Urchins		
25.	The book Systema Naturae was written by		
	(a) Linnaeus		
	(b) Haeckel		
	(c) Whittaker		
	(d) Robert Brown		
26.	Karl Von Linne was involved with which branch of science?		
	(a) Morphology		
	(b) Taxonomy		
	(c) Physiology		
	(d) Medicine		
27.	Real organs are absent in		
	(a) Mollusca (b) Coelenterata		
	(c) Arthropoda (d) Echinodermata		
28. Hard calcium carbonate structures are used as skeleton by			
	(a) Echinodermata		
	(b) Protochordata		
	(c) Arthropoda		
_	(d) Nematoda		

29.	9. Differentiation in segmental fashion occurs in		
	(a) Leech		
	(b) Starfish		
	(c) Snails		
	(d) Ascaris		
30.	0. In taxonomic hierarchy family comes between		
	(a) Class and Order		
	(b) Order and Genus		
	(c) Genus and Species		
	(d) Division and Class		
31.	31. The 5-Kingdom classification has given by		
	(a) Morgan		
	(b) R. Whittaker		
	(c) Linnaeus		
	(d) Haeckel		
32.	Well defined nucleus is absent in		
	(a) blue green algae		
	(b) diatoms		
	(c) algae		
	(d) yeast		
33.	The 'Origin of Species' is written	by	
	(a) Linnaeus	(b) Darwin	
	(c) Hackel	(d) Whittaker	
34.	Meena and Hari observed an an	imal in their garden. Hari called it an insect while Meena	
	said it was an earthworm. Choose the character from the following which confirms that it is		
	an insect.		
	(a) Bilateral symmetrical body		
	(b) Body with jointed legs		
	(c) Cylindrical body		
	(d) Body with little segmentation		
35.	35. Write true (T) or false (F)		
	(a) Whittaker proposed five kingdom classification.		
	(b) Monera is divided into Archaebacteria and Eubacteria.		

(c) Starting from Class, Species comes before the Genus.

(e) Blue green algae belongs to the kingdom Protista.

(d) Anabaena belongs to the kingdom Monera.

(f) All prokaryotes are classified under Monera.

	(a) Fungi shows——mode of nutrition.				
	(b) Cell wall of fungi is made up of ———.				
	(c) Association between blue green algae and fungi is called as—.				
	(d) Chemical nature of chitin is ———.				
	(e) ——has smallest number of organisms with maximum number of similar characters				
(f) Plants without well differentiated stem, root and leaf are kept in ———.					
	(g) ——are called as amphibians of th	e plant kingdom.			
37	. You are provided with the seeds of gr	am, wheat, rice, pumpkin, maize and pea. Classify			
	them whether they are monocot or dicot				
38	. Match items of column (A) with items of	f column (B)			
	(A)	(B)			
	(a) Naked seed	(A) Angiosperms			
	(b) Covered seed	(B) Gymnosperms			
	(c) Flagella	(C) Bryophytes			
	(d) Marchantia	(D) Euglena			
	(e) Marsilea	(E) Thallophyta			
	(f) Cladophora	(F) Pteridophyta			
	(g) Penicillium	(G) Fungi			
39	. Match items of column (Λ) with items of	f column (B)			
	(A)	(B)			
	(a) Pore bearing animals	(A) Arthropoda			
	(b) Diploblastic	(B) Coelenterata			
	(c) Metameric segmentation	(C) Porifera			
	(d) Jointed legs	(D) Echinodermata			
	(e) Soft bodied animals	(E) Mollusca			
	(f) Spiny skinned animals	(F) Annelida			
40	. Classify the following organisms base	ed on the absence/presence of true coelom (i.e.,			
acoelomate, pseudocoelomate and coelomate) Spongilla, Sea anemone, Planaria, Liver					
	fluke Wuchereria, Ascaris, Nereis, Earthworm, Scorpion, Birds, Fishes, Horse.				

- 41. Endoskeleton of fishes are made up of cartilage and bone; classify the following fishes as cartilagenous or bony Torpedo, Sting ray, Dog fish, Rohu, Angler fish, Exocoetus.
- 42. Classify the following based on number of chambers in their heart. Rohu, Scoliodon, Frog, Salamander, Flying lizard, King Cobra, Crocodile, Ostrich, Pigeon, Bat, Whale
- 43. Classify Rohu, Scolidon, Flying lizard, King Kobra, Frog, Salamander, Ostrich, Pigeon, Bat, Crocodile and Whale into the cold blooded/warm blooded animals.
- 44. Name two egg laying mammals.

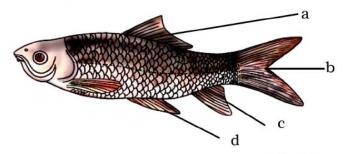
36. Fill in the blanks

45. Fill in the blanks

- (a) Five kingdom classification of living organisms is given by———.
- (b) Basic smallest unit of classification is ———.
- (c) Prokaryotes are grouped in Kingdom ———.
- (d) Paramecium is a protista because of its —
- (e) Fungi do not contain ———.
- (f) A fungus ——— can be seen without microscope.
- (g) Common fungi used in preparing the bread is —
- (h) Algae and fungi form symbiotic association called ———.

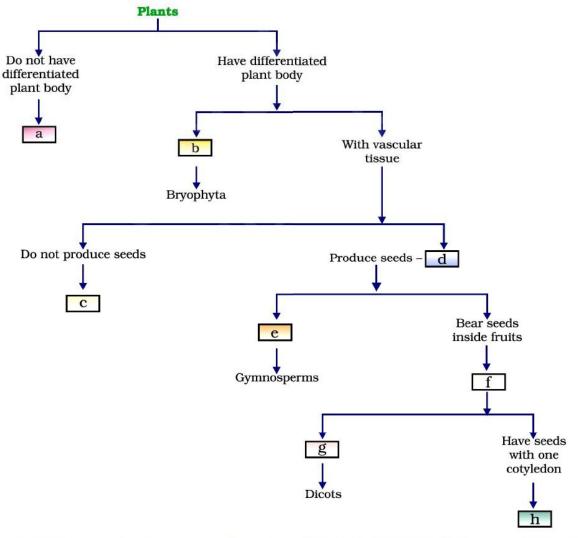
46. Give True (T) and False (F)

- (a) Gymnosperms differ from Angiosperms in having covered seed.
- (b) Non flowering plants are called Cryptogamae.
- (c) Bryophytes have conducting tissue.
- (d) Funaria is a moss.
- (e) Compound leaves are found in many ferns.
- (f) Seeds contain embryo.
- 47. Give examples for the following
 - (a) Bilateral, dorsiventral symmetry is found in—.
 - (b) Worms causing disease elephantiasis is——.
 - (c) Open circulatory system is found in—where coelomic cavity is filled with blood.
 - (d) ——are known to have pseudocoelom.
- **48.** Label a, b, c and d. given in below figure. Give the function of (b)



- 49. Write names of few thallophytes. Draw a labelled diagram of Spirogyra.
- 50. Thallophyta, bryophyta and pteridophyta are called as 'Cryptogams'. Gymnosperms and Angiosperms are called as 'phanerogams'. Discuss why? Draw one example of Gymnosperm.
- **51.** Define the terms and give one example of each (a) Bilateral symmetry (b) Coelom (c) Triploblastic
- **52.** You are given leech, *Nereis*, *Scolopendra*, prawn and scorpion; and all have segmented body organisation. Will you classify them in one group? If no, give the important characters based on which you will separate these organisms into different groups.

53. Fill in the boxes given in below figure with appropriate characteristics/plant group (s)



- **54.** Which organism is more complex and evolved among Bacteria, Mushroom and Mango tree. Give reasons.
- 55. Differentiate between flying lizard and bird. Draw the diagram.
- 56. List out some common features in cat, rat and bat.
- 57. Why do we keep both snake and turtle in the same class?