



PHYSICS

BOOKS - NAVNEET SCIENCE (HINGLISH)

ANIMAL CLASSIFICATION

Important Points

1. Which criteria are used for classification of organism ?



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2. How are the plants classified ?



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Fill In The Blanks

1. In Porifera the water is taken in through
and given out through



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2. Animals attached to substratum are called animals .



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3. In coelenterates, , are useful for capturing the prey whereas Inject the toxin in the body of prey.



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4. Body of annelidan animals is long, cylindrical and ,segmented.



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5. ,is second largest phylum in animal kingdom.



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6. Endoskeleton of Cyclostomata animals is
..... .



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7. Body cavity between the body and internal organs is called



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8. Larvae of ,metamorphose into adults after settling down at bottom of the sea.



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9., of birds is present in the form of feathers.



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10. In frogs,, is absent .



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Choose Correct Option

1. Which special cells are present in the body of sponges (Porifera)?

A. Collar cells

B. Cnidoblasts

C. Germ cells

D. Ectodermal cells

Answer:



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2. Which of the following animals' body shows bilateral symmetry ?

A. Starfish

B. Jellyfish

C. Earthworm

D. Sponge

Answer:



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3. Which of the following animals can regenerate it's broken body part ?

A. Cockroach

B. Frog

C. Sparrow

D. Starfish

Answer:



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4. Bat is included in which class ?

A. Amphibia

B. Reptilia

C. Aves

D. Mammalia

Answer:



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Statement

1. One word is incorrect in the statement .

Change it to make the statement correct :

Greek philosopher Linnaeus was the first to perform the animal classification.



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2. One word is incorrect in the statement .

Change it to make the statement correct :

Heart if present in the non -chordates is on ventral side of body .



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3. One word is incorrect in the statement .

Change it to make the statement correct :

Arthropoda animals bear numerous pores on their body .



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4. One word is incorrect in the statement .

Change it to make the statement correct :

Coelenterate animals have special type of collar cells .



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5. One word is incorrect in the statement .

Change it to make the statement correct :

Aschelminthes have acoelomate and bilaterally symmetrical body.



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6. One word is incorrect in the statement .

Change it to make the statement correct :

Planet Earth has highest number of animals from phylum Echinodermata.



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7. One word is incorrect in the statement .

Change it to make the statement correct :

Animals belonging to phylum Annelida

perform locomotion with the help of tube - feet.



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8. One word is incorrect in the statement .

Change it to make the statement correct :

Herdmania has notochord in only tail region and hence it is called Hemichordate.



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9. One word is incorrect in the statement .

Change it to make the statement correct :

Mammals breathe with the help of gills .



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10. One word is incorrect in the statement .

Change it to make the statement correct :

Amphibians are warm blooded .



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Match The Column

1.

(1) Phylum	Characteristics
(1) Mollusca	(a) Collar cells
(2) Hemichordata	(b) Mantle
	(c) Trunk



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2.

(2) Phylum	Characteristics
(1) Porifera	(a) Tunic
(2) Coelenterata	(b) Collar cells
	(c) Tentacles bearing cnidoblasts



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(3) Subphylum/Class	Characteristics
(1) Cyclostomata	(a) Collar cells
(2) Urochordata	(b) Sucker
	(c) Tunic

3.



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Find The Odd One Out

1. Physalia , Hyalonema, Euplectella , Spongilla



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2. Planaria , Liverfluke , Filarial worm,
Tapeworm



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3. Star fish , Sea urchin, Nereis , Sea - cucumber



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4. Cockroach , Butterfly , Spider , Honey bee



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5. Amphioxus , Herdmania , Doliolum ,
Oikopleura



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6. Frog , Tortoise , Toad , Salamander



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7. Tube feet , Setae , Parapodia , Sucker



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8. Shark , Sting ray, Electric ray, Pomfret



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Find The Corelation

1. Annelida : Earthworm : : Platyhelminth :

.....



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2. Horse : Mammal :: Seahorse :



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3. Parapodia : Annelida :: Tube feet :



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4. Frog : Amphibia :: Turtle :



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5. Proboscis : Hemichordata : : Suctorial mouth

: :



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6. Bird from very cold regions : Penguin : :

Aquatic Mammal from very cold regions : :

.....



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Complete The Chart

Body cavity	Germ Layer	Phylum
<i>Absent</i>	-----	Porifera
Absent	Triploblastic	-----
<i>Pseudocoelom</i>	-----	Aschelminthes
<i>Present</i>	-----	Arthropoda

1.



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Type	Character	Examples
Cyclostomata	-----	-----
-----	Gill respiration	-----
Amphibia	-----	-----
-----	-----	Whale, Cat, Man
-----	Poikilotherms	-----

2.



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Identify Me

1. I am diploblastic and acoelomate. Which phylum do I belong to ?



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2. My body is radially symmetrical . Water vascular system is present in my body . I am

referred as fish though I am not. What is my name ?



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3. I live in your small Intestine. Pseudocoelom is present in my thread like body . In which phylum will you include me ?



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4. Though I am multicellular , there are no tissue in my body . What is the name of my phylum ?



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5. I am metamerically segmented , blood sucking , ectoparasite . I have suckers . Who am I and to what phylum do I belong to ?



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6. I have chitinous exoskeleton , I have four pairs of walking appendages . I can sting you.

Who am I ? What phylum do I belong to ?



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Distinguish Between

1. Butterfly and Bat.



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2. Non - chordates and Chordates .



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3. Phylum Platyhelminthes and Phylum Aschelminthes .



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4. Write any two points of differences between flat worms and round worms.



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5. Urochordata and Cephalochordata .



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6. Amphibia and Reptilia .



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7. Aves and Mammalia



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Answer In One Sentences

1. On what is the natural method of animal classification based ?



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2. On which criteria is system of classification given by Robert Whittaker based upon ?



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3. Where is nerve cord of chordate animals located ?



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4. What is radial Symmetry ?



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5. What are Spicules of poriferan animals made up of ?



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6. What are two different forms of the body in coelenterate animals ?



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7. What is the function of ostia and osculum in Poriferan animals .

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8. What are coral reefs ?

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9. What is the use of corals ?

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10. What are the divisions of the body in molluscs ?



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11. What is molluscan shell made up of and which part of the body secretes it ?



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12. Which are the three main parts of the body of a hemichordate animal ?



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13. Which six classes are included in subphylum Vertebrata ?



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14. Why are birds and mammals called warm blooded ?

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Classification Chart

1. Write the characters of each of the following with the help of classification chart .

Bath sponge :

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2. Write the characters of each of the following with the help of classification chart .

Jellyfish



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3. Write the characters of each of the following with the help of classification chart .

Grasshoper :



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4. Write the characters of each of the following with the help of classification chart .

Rohu :



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5. Write the characters of each of the following with the help of classification chart .

Frog :



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6. Write the characters of each of the following with the help of classification chart .

Lizard :



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7. Write the characters of each of the following with the help of classification chart .

Penguin :



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8. Write the characters of each of the following with the help of classification chart .

Elephant :



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Give Scientific Reasons

1. Our body irritates if it comes in contact with jellyfish.



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2. Balanoglossus is connecting link between non - chordates and chordates.



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3. All vertebrates are chordates but all chordates are not vertebrates.



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4. Though tortoise lives on land as well as in water , it cannot be included in class Amphibia.



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5. Body temperature of reptiles is not constant.



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[Answer The Following Question](#)

1. Write in brief about progressive changes in animal classification .

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2. Track the changes in methods of animal classification . How the methods of animal classification changed over the time ?

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3. State any four benefits of animal classification .



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4. What is the exact difference between grades of organization and symmetry ? Explain with examples.



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5. Into which phyla is Non - chordata divided ?

In which three subphyla are Chordates divided

?



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6. To which phylum does Cockroach belong ?

Justify your answer with scientific reasons .



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7. Write four distinguishing characters of phylum - Echinodermata .

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8. Write the characteristics of chordates.

 [View Text Solution](#)

9. Write the characteristics of vertebrates.

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10. Characters of a phylum are given below .

Read them carefully and answer the question :

(a) Spines of calcium carbonate are present on the body . (b) These animals are exclusively marine. (c) They perform the locomotion with the help of tube -feet . (d) Their skeleton is made up of calcareous plates or spicules.

(i) Animals of which phylum show the above character ?



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11. Characters of a phylum are given below .

Read them carefully and answer the question :

(a) Spines of calcium carbonate are present on the body . (b) These animals are exclusively marine. (c) They perform the locomotion with the help of tube -feet . (d) Their skeleton is made up of calcareous plates or spicules.

Give an example from that phylum.



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12. Characters of a phylum are given below .

Read them carefully and answer the question :

(a) Spines of calcium carbonate are present on the body . (b) These animals are exclusively marine. (c) They perform the locomotion with the help of tube -feet . (d) Their skeleton is made up of calcareous plates or spicules.

These animals can be classified with the help of which criteria of new system of animals classification.



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13. Identify my class/phylum and give one example of it :

(a) I have mammary glands and exoskeleton in the form of hair .



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14. Identify my class/phylum and give one example of it :

(a) We form the highest number of animals on

the planet . We have bilateral symmetry and our exoskeleton is in the form of chitin.



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15. Identify my class/phylum and give one example of it :

(c) I live in your small intestine , my body is long and thread like and pseudocoelomate.



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16. Tell me who am I ? What is my class/phylum ?

My body is divided into proboscis , collar and trunk . I am marine animal .



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17. Tell me who am I ? What is my class/phylum ?

I stay inside two shells. My body is divided into head , foot and visceral mass.





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18. Tell me who am I ? What is my class/phylum ?

I am male as well as female . I am endoparasite having a coelomate and bilaterally symmetrical body .



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19. Tell me who am I ? What is my class/phylum ?

I am sedentary marine animal drinking water all the time through numerous pores on the body .



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20. Tell me who am I ? What is my class/phylum ?

I am venomous , eight legged creature having chitinous exoskeleton .



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21. Tell me who am I ? What is my class/phylum ?

My body is covered by tunic . As a larva I swim but as an adult I settle down .



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22. Give scientific classification of shark upto class.



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23. Use your brain power :

Animals like ghariyal and crocodile live in water as well as on land. Are they amphibians or reptiles ?



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24. Use your brain power :

Animals like whale , walrus live in water (ocean). Are they included in Pisces or Mammalia ?



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Short Notes

1. Write short notes :

Benefits of classification .



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2. Write short notes :

Germinal layers .



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3. Write short notes :

Coelom.



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4. Write short notes :

Notochord.



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1. Locomotion is considered as an important characteristics of the animals . However , animals belonging to Porifera are said to be sedentary . Every other phylum has typical locomotory organs E.g. Nereis crawls with the help of parapodia , whereas earthworm buries in soil by setae . Spiders have four pairs of walking legs, crab has five while all insects have three pairs of walking legs. The walking legs are also called appendages . Starfish moves with the help of tube feet. Snails and

bivalves use muscular foot for locomotion .
Birds flying with their spread out wings and
fish swimming such body offers least
resistance during locomotion . Mammals have
two pairs of limbs while animals like snakes
are limbless. Other animals belonging like
snake are limbless. Other animals belonging to
the class of snakes also have very weak limbs
which make them creep on the ground.

What are the locomotory organs in phylum
Annelida ?



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2. Locomotion is considered as an important characteristics of the animals . However , animals belonging to Porifera are said to be sedentary . Every other phylum has typical locomotory organs E.g. Nereis crawls with the help of parapodia , whereas earthworm buries in soil by setae . Spiders have four pairs of walking legs, crab has five while all insects have three pairs of walking legs. The walking legs are also called appendages . Starfish moves with the help of tube feet. Snails and bivalves use muscular foot for locomotion .

Birds flying with their spread out wings and fish swimming such body offers least resistance during locomotion . Mammals have two pairs of limbs while animals like snakes are limbless. Other animals belonging like snake are limbless. Other animals belonging to the class of snakes also have very weak limbs which make them creep on the ground.

Which phylum has a characteristic or jointed appendages ?



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3. Locomotion is considered as an important characteristics of the animals . However , animals belonging to Porifera are said to be sedentary . Every other phylum has typical locomotory organs E.g. Nereis crawls with the help of parapodia , whereas earthworm buries in soil by setae . Spiders have four pairs of walking legs, crab has five while all insects have three pairs of walking legs. The walking legs are also called appendages . Starfish moves with the help of tube feet. Snails and bivalves use muscular foot for locomotion . Birds flying with their spread out wings and

fish swimming such body offers least resistance during locomotion . Mammals have two pairs of limbs while animals like snakes are limbless. Other animals belonging like snake are limbless. Other animals belonging to the class of snakes also have very weak limbs which make them creep on the ground.

Which the locomotory organ of animals belong to Phylum Mollusca ?



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4. Locomotion is considered as an important characteristics of the animals . However , animals belonging to Porifera are said to be sedentary . Every other phylum has typical locomotory organs E.g. Nereis crawls with the help of parapodia , whereas earthworm buries in soil by setae . Spiders have four pairs of walking legs, crab has five while all insects have three pairs of walking legs. The walking legs are also called appendages . Starfish moves with the help of tube feet. Snails and bivalves use muscular foot for locomotion .

Birds flying with their spread out wings and fish swimming such body offers least resistance during locomotion . Mammals have two pairs of limbs while animals like snakes are limbless. Other animals belonging like snake are limbless. Other animals belonging to the class of snakes also have very weak limbs which make them creep on the ground.

Which class of animals show weak legs ?



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5. Locomotion is considered as an important characteristics of the animals . However , animals belonging to Porifera are said to be sedentary . Every other phylum has typical locomotory organs E.g. Nereis crawls with the help of parapodia , whereas earthworm buries in soil by setae . Spiders have four pairs of walking legs, crab has five while all insects have three pairs of walking legs. The walking legs are also called appendages . Starfish moves with the help of tube feet. Snails and bivalves use muscular foot for locomotion .

Birds flying with their spread out wings and fish swimming such body offers least resistance during locomotion . Mammals have two pairs of limbs while animals like snakes are limbless. Other animals belonging like snake are limbless. Other animals belonging to the class of snakes also have very weak limbs which make them creep on the ground.

In which class of animals the forelimbs are modified ?



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Diagram Based Questions

1. Sketch , label and classify the following organisms :



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2. Sketch , label and classify the following organisms :



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3. Sketch , label and classify the following organisms :



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4. Sketch , label and classify the following organisms :



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5. Sketch , label and classify the following organisms :



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6. Sketch , label and classify the following organisms :



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7. Sketch , label and classify the following organisms :



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8. Sketch , label and classify the following organisms :



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9. Sketch , label and classify the following organisms :



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10. Sketch , label and classify the following organisms :



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11. Sketch , label and classify the following organisms :



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12. Sketch , label and classify the following organisms :



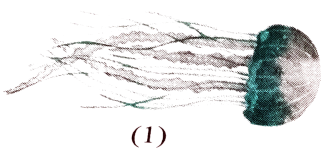
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13. Sketch , label and classify the following organisms :



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14. Label the following Animals :



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15. Identify the animal given in the figures and label the figure :

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16. Identify the animal given in the figure and label the figures :



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17. Identify the animal given in the figure and label the figures :



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18. Identify the animal given in the figure and label the figures :



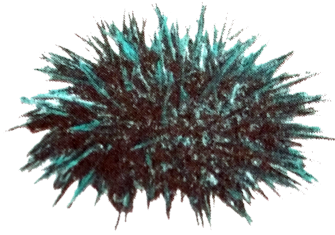
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19. Identify the class of the animal shown in the figure and write any two characteristics .



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20. Observe the figure and answer the questions given below.

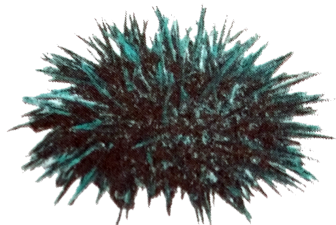


To which phylum these organisms belong ?



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21. Observe the figure and answer the questions given below.

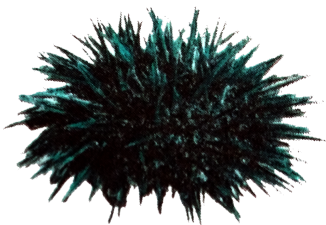


Name the substance with which their body is covered.



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22. Observe the figure and answer the questions given below.



Name their organs of locomotion .



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Activity Based Question

1. Body organization of human has been shown in the following figure. Use appropriate labels for different organs present in human body .



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2. Why is earthworm called as friend of farmers ?



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3. In what way the leech is used in ayurvedic system of treatment ?



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4. What is chitin ?



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5. What types of benefit and harm occur to human from animals of phylum - Arthropoda?



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6. Which are the animals from phylum Arthropoda those have shortest and longest life span ?



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7. Why has it been said that only insects directly compete with humans for food ?



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Project Based Mcqs

1. Which reptiles are usually kept as pets , but it is against Wildlife Act ?

A. Turtles and tortoise

B. Water snakes

C. Cobras

D. Lizards

Answer: a



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2. Which birds are always present in any weather and at any place in Maharashtra ?

A. Hornbills

B. Crows

C. Sun birds

D. Sparrows

Answer: b



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3. Due to which similar characteristics honey bee and cockroach are included in the same phylum ?

A. Wings

B. Three pairs of legs

C. Jointed appendages

D. Antenna

Answer: c



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4. is a cold blooded animal.

A. Bat

B. snake

C. Rabbit

D. Elephant

Answer: b



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