



## BIOLOGY

### BOOKS - NCERT BIOLOGY (ENGLISH)

#### ANIMAL KINGDOM

##### Multiple Choice Questions

1. In some animal groups, the body is found divided into compartments with serial repetition of at least some organs. This characteristic feature is called

- A. Segmentation
- B. Metamerism
- C. Metagenesis
- D. Metamorphosis

**Answer: B**



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2. Given below are types of cells present in some animals. Which of the following cells can differentiate to perform different functions ?

A. choanocytes

B. interstitial cells

C. gastrodermal cells

D. nematocytes

**Answer: B**



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3. Which one of the following sets of animals share a four chambered heart ?

- A. Amphibian, Reptiles, Birds
- B. Crocodiles, Birds, Mammals
- C. Crocodiles, Lizards, Turtles
- D. Lizards, Mammals, Birds

**Answer: B**



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**4. Which of the following pairs of animals has non-glandular skin ?**

- A. Snake and frog
- B. Chameleon and turtle
- C. Frog and pigeon
- D. Crocodile and tiger

**Answer: B**



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5. Birds and mammals share one of the following characteristics as a common feature.

- A. Pigmented skin
- B. Pneumatic bones
- C. Viviparity
- D. Warm blooded body

**Answer: D**



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6. Which one of the following sets of animals belong to a single taxonomic group ?

- A. Cuttlefish, jellyfish, silverfish, dogfish, starfish
- B. bat, pigeon, butterfly

C. Monkey, chimpanzee, man

D. Silkworm, tapeworm, earthworm

**Answer: C**



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7. Which one of the following statements is incorrect ?

A. Mesoglea is present in between ectoderm and endoderm in Obelia

B. Asterias exhibits radial symmetry and

C. Fasciola is a pseudocoelomate animal

D. Taenia is triploblastic animal

**Answer: C**



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8. Which one of the following statements is incorrect

- A. In cockroaches and prawns excretion of waste material occurs through Malpighian tubules.
- B. In ctenophores, locomotion is mediated by comb plates.
- C. In fasciola flame cells take part excretion
- D. Earthworms are hermaphrodites and yet cross fertilisation take place among them.

**Answer: A**



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9. Which one of the following is oviparous ?

- A. Platypus
- B. Flying fox (bat)

C. Elephant

D. Whale

**Answer: A**



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**10. Which one of the following is not a poisonous snake ?**

A. Cobra

B. Viper

C. Python

D. Krait

**Answer: C**



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**11.** Match the following list of animals with their level of organisation.

Division of Labour	Animal
A. Organ level	<i>i. Pheretima</i>
B. Cellular aggregate level	<i>ii. Fasciola</i>
C. Tissue level	<i>iii. Spongilla</i>
D. Organ system level	<i>iv. Obelia</i>

Choose the correct match showing division of labour with animal example.

A. (i)-B, (ii)-C, (iii)-D and (iv)-A

B. (i)-B, (ii)-D, (iii)-C and (iv)-A

C. (i)-D, (ii)-A, (iii)-B and (iv)-C

D. (i)-A, (ii)-D, (iii)-C and (iv)-B

**Answer: C**



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**12.** Body cavity is the cavity present between body wall and gut wall. In some animals the body cavity is not lined by mesoderm. Such animals are



called

A. Acoelomate

B. Pseudocoelomate

C. Coelomate

D. Haemocoelomate

**Answer: B**



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**13. Match of column A with column B and choose the correct option.**

Column A

Column B

A. Porifere

*i.* Canal system

B. Aschelminthes

*ii.* Water-vascular system

C. Annelida

*iii.* Muscular pharynx

D. Arthropoda

*iv.* Jointed appendages

E. Echinodermata

*v.* Metameres

A. 

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
2	3	5	4	1

B. 

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
2	5	3	4	1

C. 

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
1	3	5	4	2	

D. 

	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
1	5	3	4	2	

**Answer: C**



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### Very Short Answer Type Questions

1. Identify the phylum in which adults exhibit radial symmetry and larva exhibit bilateral symmetry.



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2. What is the importance of pneumatic bones and air sacs in Aves ?



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3. What is metagenesis ? Mention an example which exhibits this phenomenon.



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4. What is the role of feathers ?



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5. Which group of chordates posses sucking and circular mouth without jaws ?



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6. Give one example each for an animal possessing placoid scales and that with cycloid scales.



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7. Mention two modifications in reptiles required for terrestrial mode of life.



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8. Mention one example each for animals with chitinous exoskeleton and those covered by a calcareous shell.



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9. What is the role of radula in molluscs?



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10. Name the animals, which exhibit the phenomenon of bioluminescence. Mention the phylum to which belongs.



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**11.** Write one example for each of the following in the space provided.

(a) Cold blooded animal .....

(b) Warm blooded animal .....

(c) Animal possessing dry and cornified skin .....

(d) Dioecious animal .....



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**12.** Differentiate between a diploblastic and a triploblastic animal.



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**13.** Give an example of the following

(a) Roundworm

(b) Fish possessing poison sting

(c ) A limeless reptile/amphibian

(d) An oviparous mammal



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**14.** Provide appropriate technical term in the space provided.

(a) Blood-filled cavity in arthropods .....

(b) Free-floating form of cnidaria .....

(c ) Stinging organ of jelly fishes .....

(d) Lateral appendages in aquatic annelids .....



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**15.** Match the following

Animals

Locomotory Organ

- |               |       |             |
|---------------|-------|-------------|
| A. Octopus    | (i)   | Limbs       |
| B. Crocodile  | (ii)  | Comb plates |
| C. Catta      | (iii) | Tentacles   |
| D. Ctenoplana | (iii) | Fins        |



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## Short Answer Type Questions

1. Differentiate between

(a) Open circulatory system and closed circulatory system.

(b) Oviparous and viviparous characteristic.

(c) Direct development and Indirect development.



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2. Sort out the animals on the basis of their symmetry (radial or bilateral) coelenterates, ctenophores, annelids, arthropods and echinoderms.



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3. There has been an increase in the number of chambers in heart during evolution of vertebrates. Give the names of the class of vertebrates having two, three or four chambered heart.

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#### 4. Fill up the black spaces appropriately

Phylum/Class	Excretory Organ	Circulatory Organ	Respiratory Organ
Arthropoda	Nephridia	Closed	Lungs/Gills/Trachea
	Metanephridia	Open	Skin/Parapodia
Amphibia		Closed	Lung

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#### 5. Match the following

- |                   |       |   |
|-------------------|-------|---|
| A. Amphibia       | (i)   | Air bladder                               |
| B. Mammals        | (ii)  | Cartilaginous notochord                   |
| C. Chondrichthyes | (iii) | Mammary glands                            |
| D. Osteichthyes   | (iv)  | Pneumatic bones                           |
| E. Cyclostomata   | (v)   | Dual habitat                              |
| F. aves           | (vi)  | Sucking and circular mouth with out jaws. |

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6. Endoparasites are found inside the host body. Mention the special structure, possessed by these and which enables them survive in those conditions.



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7. Match the following and write correct choice in space provided

Animal

Characteristics

- |              |       |                       |
|--------------|-------|-----------------------|
| A. Pila      | (i)   | Jointed appendages    |
| B. Cockroach | (ii)  | Perching              |
| C. Asterias  | (iii) | Water vascular system |
| D. Torpedo   | (iv)  | Electric organ        |
| E. Parrot    | (v)   | Presence of shell     |
| F. Dog fish  | (vi)  | Placoid scales        |

A. .... B. ....

C. .... D. ....

E. .... F. ....



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**8. Differentiate between**

- (a) Open and closed circulatory system
- (b) Oviparity and viviparity
- ( c) Direct and indirect development
- (d) Acoelomate and pseudocoelomate
- (e) Notochord and never cord
- (f) Polyp and medusa



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**9. Give the characteristics features of the following citing one example of each** (a) Chondrichthyes and osteichthyes

(b) Urochordata and cephalochordata



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**10. Mention two similarities between**

(a) Aves and mammals , (b) A frog and crocodile

## A turtle and Pila



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### 11. Name

- (a) A limbless animals
- (b) A cold blooded animals
- (c ) A warm blooded animal
- (d) An animal possessing dry and cornified skin
- (e) An animal having canal system and spicules
- (f) An animal with cnidoblasts



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### 12. Give an example for each of the following

A viviparous animal

- (b) A fish possessing a poison sting
- (c ) A fish possessing an electric organ
- (d) An organ, which regulates buoyancy

(e) Animal, which exhibits alternation of generation

(f) Oviparous animal with mammary of gland



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**13.** Excretory organs of different animals are given below. Choose correctly and write in the space provided.

Animal		Excretory Organ/Unit
A. Balanoglossus	(i)	Metanephridia
B. Leech	(ii)	Nephridia
C. Locust	(iii)	Flame cells
D. Liver fluke	(iv)	absent
E. Sea urchin	(v)	Malpighian tubule
F. Pila	(vi)	Proboscis glands

A..... B.....

C..... D.....

E..... F.....



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Long Answer Type Questions

1. Give three major differences between chordates and non chordates and draw a schematic sketch of a chordate showing those features.



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2. What is the relationship between germinal layers and the formation of body cavity in case in of coelomate, acoelomates and pseudocoelomates ?



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3. Comment upon the habitats and external features of animals belonging to class-Amphibia and Reptilia.



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4. Mammals are most adapted among the vertebrates elaborate.



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