



Class: XI	Department: SCIENCE 2021 -2022 SUBJECT: BIOLOGY	Date of submission: Second week of October
Worksheet no.9 with answers	CHAPTER: ANIMAL KINGDOM	Note: A4 FILE FORMAT
NAME OF THE STUDENT	CLASS & SEC:	ROLL NO.

Objective type questions (Assertion & Reason)

1.**Assertion:** Sponges have a water transport or canal system.

Reason: This pathway of water transport is helpful in food gathering, respiratory exchange and removal of waste

- Both assertion and reason are true, and the reason is the correct explanation of the assertion.
- Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
- Assertion is true but reason is false.
- Both assertion and reason are false

2.**Assertion:** Ctenophores, commonly known as comb jellies are exclusively marine

Reason: Bioluminescence, the property of a living organism to emit light is well-marked in ctenophores

- Both assertion and reason are true, and the reason is the correct explanation of the assertion.
- Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
- Assertion is true but reason is false.
- Both assertion and reason are false

3.**Assertion:** All vertebrates are chordates but all chordates are not vertebrate

Reason: Phylum Chordata is a subphylum of Vertebrata

- Both assertion and reason are true, and the reason is the correct explanation of the assertion.
- Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
- Assertion is true but reason is false.

- d. Both assertion and reason are false

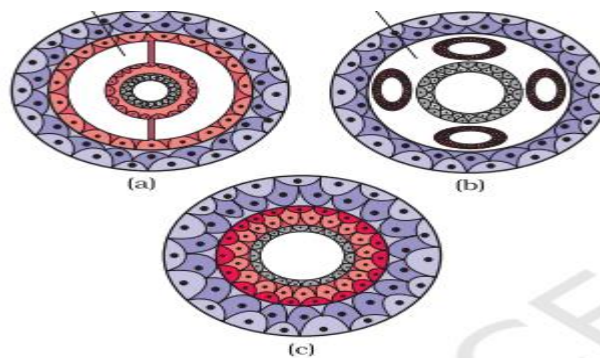
4.Assertion: Pisces are warm-blooded animals

Reason: They have the capacity to regulate their body temperature

- a. Both assertion and reason are true, and the reason is the correct explanation of the assertion.
- b. Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
- c. Assertion is true but reason is false.
- d. Both assertion and reason are false

CASE STUDY

Observe the diagrams given below and answer the questions that follows.



1. Identify the figures given

- a) a- pseudocoelom, b- coelom, c- acoelom
- b) a- acoelom, b- coelom, c- pseudocoelom
- c) a- coelom, b- pseudocoelom, c- acoelom
- d) a-coelom, b- acoelom, c- pseudocoelom

2. The animals possessing pseudocoelomates is

- a) Aschelminthes
- b) Platyhelminthes
- c) Annelids,
- d) Molluscs

3.Assertion: The animals possessing pseudocoelom are called pseudocoelomates

Reason: The mesoderm is present as scattered pouches

- a. Both assertion and reason are true, and the reason is the correct explanation of the assertion.
- b. Both assertion and reason are true, but the reason is not the correct explanation of the assertion.
- c. Assertion is true but reason is false.

d. Both assertion and reason are false

4. Which of the following combinations is incorrect

- a) Nematoda- roundworms, pseudocoelomate
- b) Sponges- gastrovascular cavity, coelom present
- c) Echinodermata- coelom present, bilateral symmetry
- d) Platyhelminthes- gastrovascular cavity, flatworms, acoelomate

5. Presence or absence of a cavity between the body wall and the gut wall is very important in classification

True/False

6. Identify the characteristic of acoelomates

- a) Absence of mesoderm
- b) Absence of brain
- c) Coelom that is incompletely lined with a mesoderm
- d) Solid body without a cavity surrounding internal organs

MCQs

1. Which class has the largest number of animals?

- a. Fishes
- b. Insects
- c. Reptiles
- d. Mammals

2. Salamander belongs to the class

- a. Pisces
- b. Aves
- c. Reptiles
- d. Amphibian

3. Flame cells are the excretory structures for

- a. Annelida
- b. Coelenterates
- c. Platyhelminthes
- d. Echinodermata

4. Phylum Porifera is classified based on

- a. Branching
- b. Symmetry
- c. Spicules
- d. Reproduction

5. The canal system in sponges develops due to
- Porous walls
 - Gastrovascular system
 - Reproduction
 - Folding of inner walls
6. Select the correct pair
- Arthropoda- silver fish
 - Pisces- jelly fish
 - Echinodermata- cuttle fish
 - Mollusca- star fish
7. Cnidarians exhibit two basic body forms called polyp and medusa, this property is called
- Metagenesis
 - Metamerism
 - Symmetry
 - Oogenesis
8. The following is not the characteristic of Chordates
- The presence of a notochord
 - A dorsal hollow nerve cord
 - They possess a post anal tail and a closed circulatory
 - These are radially symmetrical, diploblastic and acoelomate
9. Ascaris is characterized by
- Presence of true coelom and metamerism
 - Presence of true coelom but the absence of metamerism
 - Absence of true coelom and metamerism
 - Absence of true coelom but the presence of metamerism
10. Cnidaria is characterized by
- Tissue level of organization
 - Nematoblasts
 - Coelenteron
 - All
11. Notochord occurs throughout life and all through the length of the body in
- Cephalochordates
 - Hemichordates
 - Urochordata
 - Vertebrata

12. Identify figure a and b given below

a



b



- a. (a) Aurelia (b) Adamsia
- b. (a) Physalia (b) Adamsia
- c. (a) Aurelia (b) Obelia
- d. (a) Gorgonia (b) Mandarinina

13. *Periplaneta* belongs to which phylum?

- a. Mollusca
- b. Arthropoda
- c. Annelida
- d. Echinodermata

14. Which of the following characters is not typical to class Mammalia?

- a. Alveolar lungs
- b. Seven cervical vertebrae
- c. Thecodont dentition
- d. Ten pairs of cranial nerves

15. Radial symmetry is found in

- a. Coelenterates and Platyhelminthes
- b. Coelenterates and Echinodermata
- c. Arthropoda and Mollusca
- d. Porifera and Coelenterates

ANSWERS

Assertion and Reason

1-a	2-b	3-c	4-d
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Case Study

1-c	2-a	3-a	4-b	true	6-a
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MCQs

1-b	2-d	3-c	4-c	5-d
6-a	7-a	8-d	9-c	10-d
11-a	12-a	13-b	14-d	15-b

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