

# 1<sup>st</sup> Term Worksheet

Subject – Biology

Class – VII

Name :

Sec. :

## Chapter – 2

### [Kingdom Classification I]

#### Check Point:

- [A] Fill in the blanks: [38]
- \_\_\_\_\_ is the largest unit of classification, while \_\_\_\_\_ is the smallest unit of classification.
  - A group of organisms that share common characteristics and can reproduce among themselves is termed as \_\_\_\_\_.
  - \_\_\_\_\_ suggested the five-kingdom system of classification.
  - \_\_\_\_\_ are unicellular organisms that lack a defined nucleus and other cell components.
  - \_\_\_\_\_ comprises multicellular organisms with a well-defined cell wall.
  - Organisms in \_\_\_\_\_ do not have a cell wall.
- [B] Write True or False for the following sentences: [41]
- Kingdom Monera has only bacteria as its members. \_\_\_\_\_
  - Bacillus are comma-shaped bacteria. \_\_\_\_\_
  - Salmonella typhi* is a harmful bacteria. \_\_\_\_\_
  - Bacteria reproduce by spore formation. \_\_\_\_\_
  - Streptomyces* fixes atmospheric nitrogen and make it available to the plants. \_\_\_\_\_
- [C] Write True or False for the following sentences: [43]
- Kingdom Protista include multicellular organisms. \_\_\_\_\_
  - Protist reproduce asexually by binary fission and sexually by cell fusion. \_\_\_\_\_
  - The process of obtaining food by *amoeba* is called photosynthesis. \_\_\_\_\_
  - In *Amoeba*, respiration takes place through plasma membrane. \_\_\_\_\_
  - Amoeba* is a prokaryotic organism. \_\_\_\_\_
- [D] Match the following: [47]
- | Column A               | Column B                    |
|------------------------|-----------------------------|
| 1. Rhizopus            | i. Harmful fungi            |
| 2. Aspergillus niger   | ii. Common bread mould      |
| 3. Penecillium notatum | iii. Eukaryotes             |
| 4. Kingdom Plantae     | iv. <i>Hydra and Obelia</i> |
| 5. Kingdom Animalia    | v. Useful fungi             |

#### Keywords:

[48]

Classification: \_\_\_\_\_  
\_\_\_\_\_

Classification system: \_\_\_\_\_  
\_\_\_\_\_

Rhizopus: \_\_\_\_\_

Species: \_\_\_\_\_  
\_\_\_\_\_

Saprophyte: \_\_\_\_\_

Parasite: \_\_\_\_\_

Autotroph: \_\_\_\_\_

Heterotroph: \_\_\_\_\_

**Exercise:****[49-51]**

[A] Multiple Choice Questions:

[49]

- (i) Which of the following is the smallest unit of classification?
- (a) Species (b) Family  
(c) Genus (d) Order
- (ii) In 1969, R.H. Whittaker suggested the \_\_\_\_\_ kingdom system of classification.
- (a) Three (b) Four  
(c) Five (d) Six
- (iii) Which of the following kingdoms comprises only bacteria as its members?
- (a) Monera (b) Protista  
(c) Fungi (d) Algae
- (iv) Which of the following disease is caused by *Bacillus anthracis*?
- (a) Anthrax (b) Tetanus  
(c) Botulism (d) Listeriosis
- (v) The whip-like structure called \_\_\_\_\_ help the bacteria in locomotion.
- (a) Cilia (b) Pili  
(c) Flagellum (d) None
- (vi) \_\_\_\_\_ are non-green, multicellular plants.
- (a) Monera (b) Protista  
(c) Fungi (d) Algae
- (vii) *Rhizopus* is \_\_\_\_\_ in nature.
- (a) Parasitic (b) Saprophytic  
(c) Symbiotic (d) None
- (viii) *Amoeba* reproduces by the process of
- (a) Binary fission (b) Multiple fission  
(c) Both (d) None

[B] Fill in the blanks:

[49]

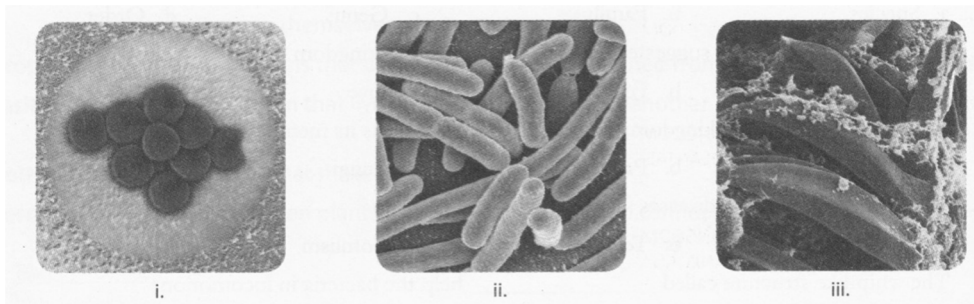
- \_\_\_\_\_ helps to build interrelationship between different organisms.
- \_\_\_\_\_ are found almost everywhere on earth, even in extreme conditions like hot springs, deserts.
- \_\_\_\_\_ are comma-shaped.
- The locomotion in *amoeba* takes place by \_\_\_\_\_.
- In *amoeba*, respiration takes place through the cell membrane, also called \_\_\_\_\_.
- \_\_\_\_\_ also play an important role in the preparation of acids such as gluconic and citric acids.

7. Some hyphae grow downwards as roots. These hyphae are called \_\_\_\_\_.

[C] Write T for true and F for false statements: [49]

1. Kingdom Protista are known as decomposers in biosphere. \_\_\_\_\_
2. Moulds show aerobic mode of respiration. \_\_\_\_\_
3. Kingdom Plantae includes multicellular and eukaryotic organisms. \_\_\_\_\_
4. Animals generally possess a definite shape, size and symmetry. \_\_\_\_\_
5. Movement occurs in animals with the help of cardiopulmonary system. \_\_\_\_\_
6. The body of plants is irregular due to the presence of branches. \_\_\_\_\_
7. Kingdom animalia lacks cell wall. \_\_\_\_\_

[D] 1. Look at the following images and answer the questions that follow: [50]



i. Identify the organisms shown in the images.

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

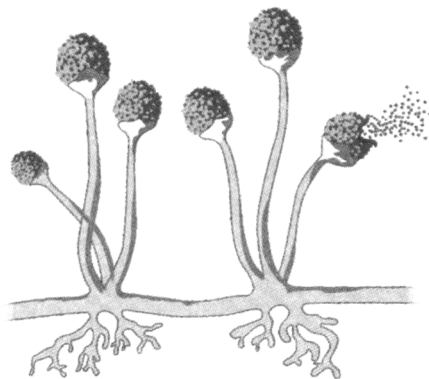
ii. Which kingdom do they belong to?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

iii. What is the mode of nutrition shown by these organisms?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. [50]



i. Identify the organism shown in the given picture.

\_\_\_\_\_  
\_\_\_\_\_

ii. Which kingdom does it belong to?

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iii. What do you understand by:

a. Hyphae:

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b. Mycelium:

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(iv) What type of nutrition is seen in these organisms?

Ans.

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(v) What is the mode of respiration in these organisms?

Ans.

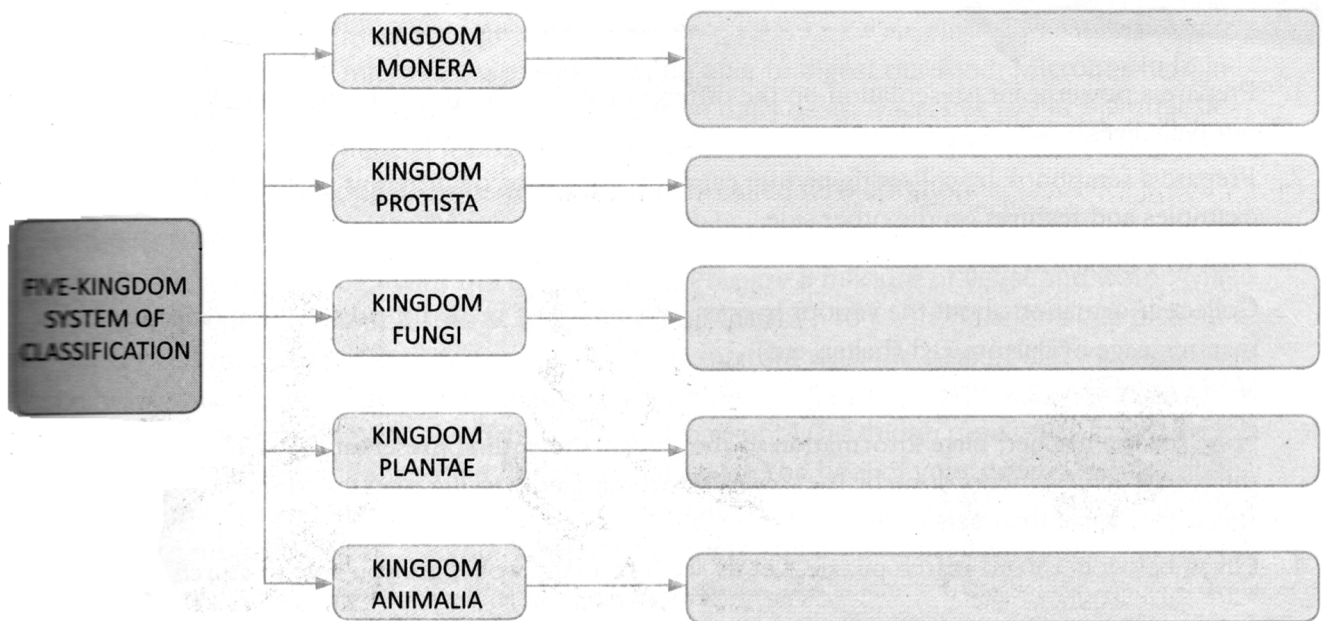
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3. Complete the given flowchart and write any one characteristic feature of each kingdom based on their shape/structure: [51]



[E] Very short answer type questions:

[51]

1. Which is the largest unit of classification?

Ans.

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2. Which is the smallest unit of classification?

Ans.

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3. Which kingdom is also known as the decomposers in the biosphere?

Ans. \_\_\_\_\_  
\_\_\_\_\_

4. Name any two bacteria that are useful in our daily life.

Ans. \_\_\_\_\_  
\_\_\_\_\_

5. How does amoeba reproduce?

Ans. \_\_\_\_\_  
\_\_\_\_\_

6. Name any two common bread moulds.

Ans. \_\_\_\_\_  
\_\_\_\_\_

[F] Short answer type questions: [51]

1. Describe the plan of classification with the help of a flowchart.

Ans- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Define:

a. Species: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

b. Taxonomy: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

c. Eukaryotes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

d. Prokaryotes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. How does *amoeba* respire?

Ans- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Enumerate any two uses and harms of fungi.

Ans- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Name the organs of locomotion in bacteria and fungi.

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[G] Long answer type questions: [51]

1. Mention the characteristic features of the five kingdom classification as given by R. H. Whittaker.

Ans- \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_







**Chapter – 3****[Kingdom Classification]****Check Point:**

[A] Fill in the blanks: [57]

1. The animals of phylum Porifera are generally known as \_\_\_\_\_.
2. The members of Phylum Coelenterata are commonly known as \_\_\_\_\_.
3. The body of \_\_\_\_\_ is thin, flat, and bilaterally symmetrical.
4. Animals belonging to Phylum Annelida are commonly known as \_\_\_\_\_.
5. \_\_\_\_\_ is a parasite that sticks to the host and sucks its blood.

[B] Write True or False for the following sentences: [60]

1. Phylum Arthropoda is divided into four subgroups. \_\_\_\_\_
2. Crustaceans are mostly terrestrial. \_\_\_\_\_
3. All the arthropods have an outer hard covering called exoskeleton. \_\_\_\_\_
4. The digestive system is well-developed in Phylum Mollusca. \_\_\_\_\_
5. Arachnida have fused head and thorax. \_\_\_\_\_

[C] Fill in the blanks: [62]

1. \_\_\_\_\_ creep on the ground to move.
2. Aves have very light \_\_\_\_\_ as their bones have large \_\_\_\_\_.
3. \_\_\_\_\_ are the only animals who produce \_\_\_\_\_ for their babies.
4. Amphibians are \_\_\_\_\_ animals with smooth, \_\_\_\_\_ skin.
5. \_\_\_\_\_ animals can fly in air.

**Keywords:** [62]

Amphibians: \_\_\_\_\_

Arthropods: \_\_\_\_\_

Aves: \_\_\_\_\_

Invertebrates: \_\_\_\_\_

Mammals: \_\_\_\_\_

Reptiles: \_\_\_\_\_

Vertebrates: \_\_\_\_\_

**Exercise:** [63-66]

[A] Multiple Choice Questions: [63-64]

- (i) Which of the following is not a reptile?
 

(a) Salamander	(b) Crocodile
(c) Lizard	(d) Tortoise
- (ii) *Amoeba* belongs to the phylum
 

(a) Annelida	(b) Mollusca
(c) Protozoa	(d) Porifera
- (iii) Animals that have backbone are called
 

(a) Vertebrates	(b) Invertebrates
(c) Coelenterates	(d) Molluscs
- (iv) The unicellular microscopic animals come under phylum
 

(a) Porifera	(b) Protozoa
(c) Arthropoda	(d) Annelida

(v) Leech is an example of

- (a) Flatworm
- (b) Roundworm
- (c) Segmented worm
- (d) None of these

[B] Fill in the blanks:

[64]

1. \_\_\_\_\_ have three pairs of legs and mostly, two pairs of wings or may be one pair or no wings at all.
2. Some members of the phylum \_\_\_\_\_ have a shell inside their body as in octopus, squids and cuttlefish.
3. The body of \_\_\_\_\_ is soft, cylindrical, bilaterally symmetrical, and is divided into number of ring-like compartments.
4. The forelimbs of \_\_\_\_\_ modify into wings, while hindlimbs are used for perching, swimming, walking.
5. Mammals are \_\_\_\_\_ animals with hair on skin. They have specialized set of \_\_\_\_\_.



[C] Write True or False for the following sentences:

[64]

1. *Plasmodium* is a multicellular organism. \_\_\_\_\_
2. Crab belongs to class Aves. \_\_\_\_\_
3. Starfish is a real fish. \_\_\_\_\_
4. Birds are oviparous. \_\_\_\_\_
5. Reptiles are terrestrial and cold-blooded animals. \_\_\_\_\_
6. Reptiles creep on the ground. \_\_\_\_\_
7. The body of reptiles is divided into neck, trunk and tail. \_\_\_\_\_

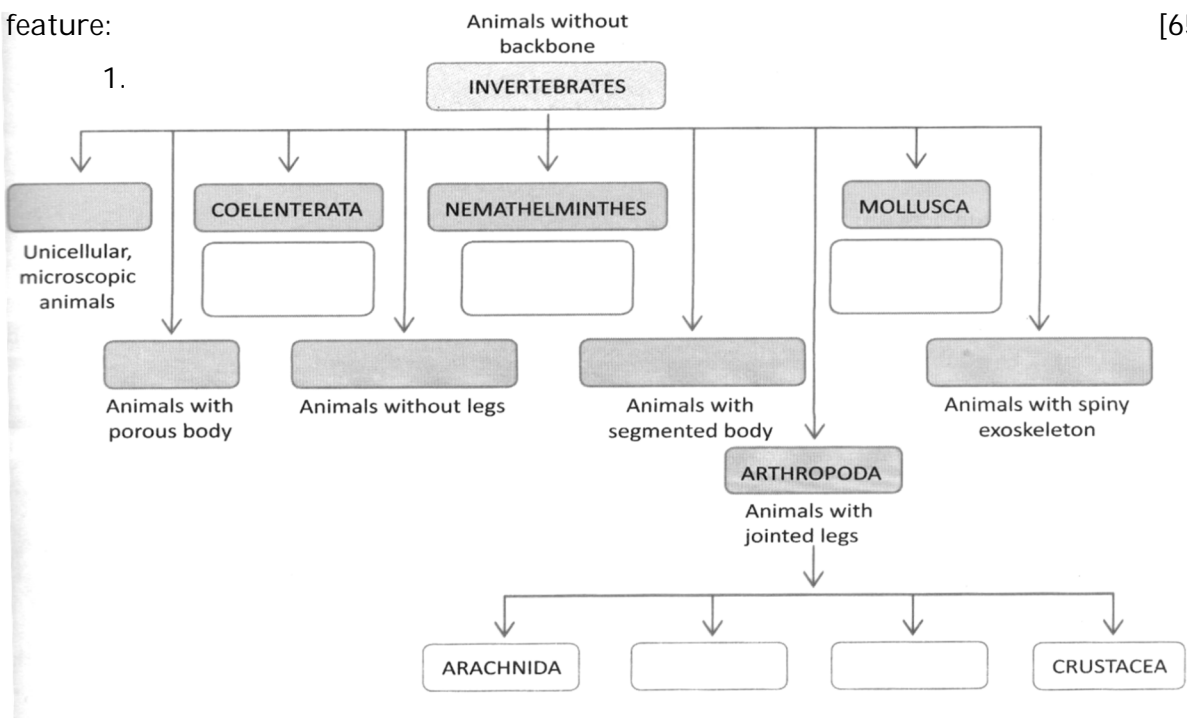
[D] Identify the given organism and complete the given table:

[64]

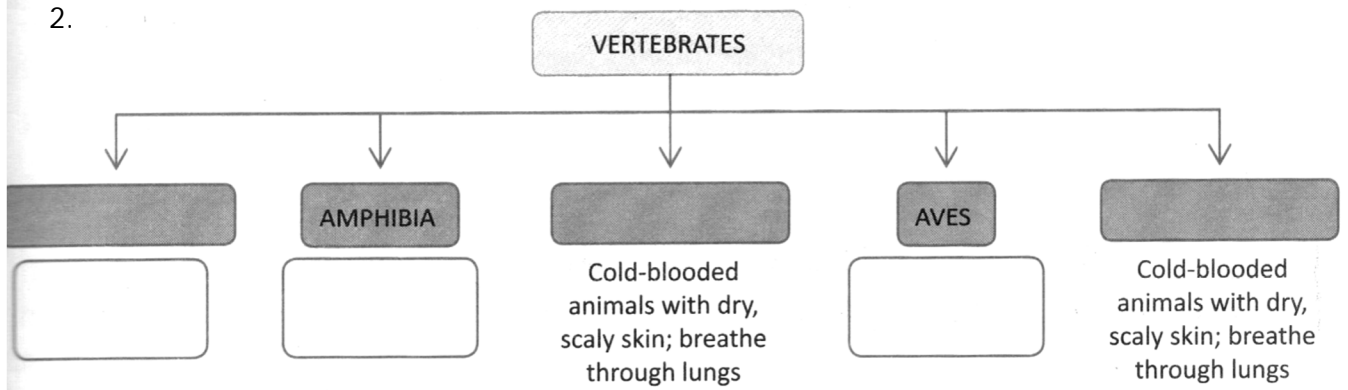
Organism	Name of the organism	Phylum involved	Any one characteristic
			
			

[E] Complete the given flowchart by identifying the major phyla and their characteristic feature:

[65]



2.



[F] Very short type questions:

[65]

1. Give two examples for the following:

- a. Coelenterates: \_\_\_\_\_  
\_\_\_\_\_
- b. Amphibians: \_\_\_\_\_  
\_\_\_\_\_
- c. Echinoderms: \_\_\_\_\_  
\_\_\_\_\_
- d. Mammals: \_\_\_\_\_  
\_\_\_\_\_
- e. Aves: \_\_\_\_\_  
\_\_\_\_\_

2. What are tentacles in Coelenterates?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Which group of animals has pseudopodia?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Name the Phylum that have star-shaped appearance.

Ans. \_\_\_\_\_  
\_\_\_\_\_

5. What is the difference between invertebrates and vertebrates?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[G] Short answer type questions:

[66]

1. Write three important characteristics of coelenterates.

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





