



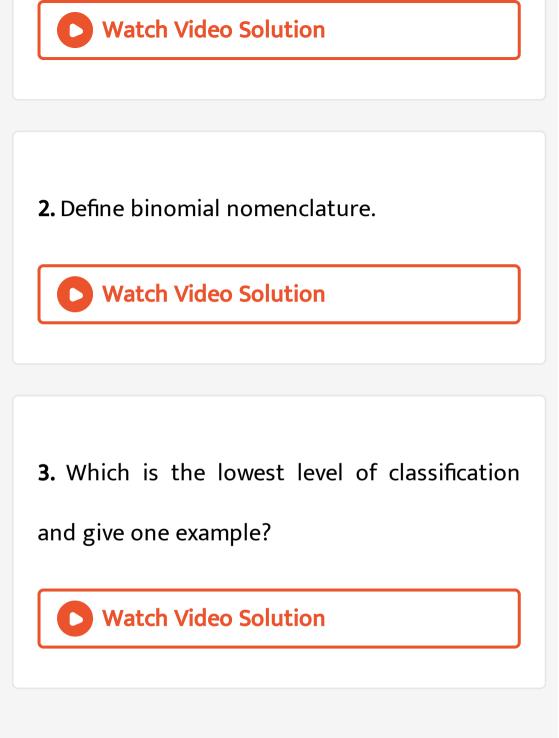
### **BIOLOGY**

## BOOKS - PEARSON IIT JEE FOUNDATION

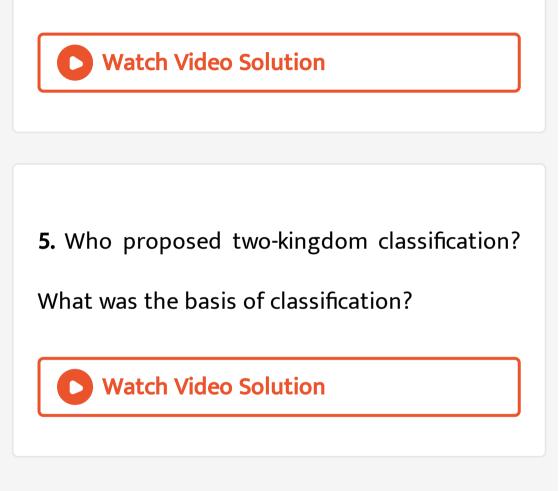
### **BASIS OF CLASSIFICATION**



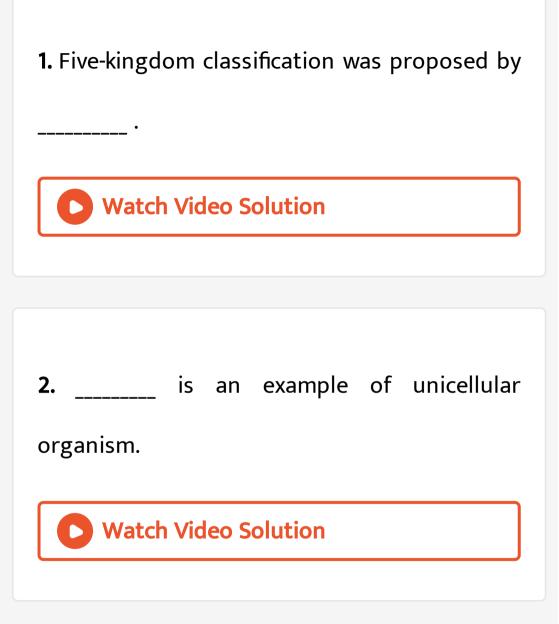
**1.** Why is classification of living organisms important?



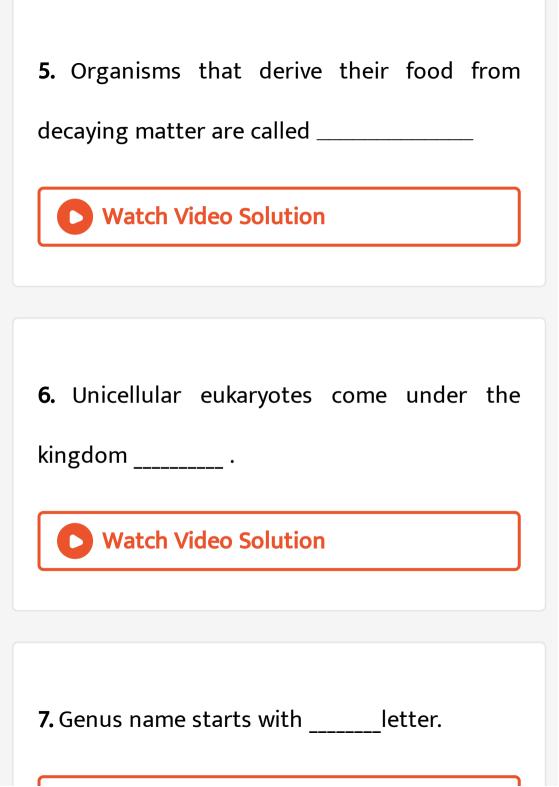
4. Differentiate between family and order.

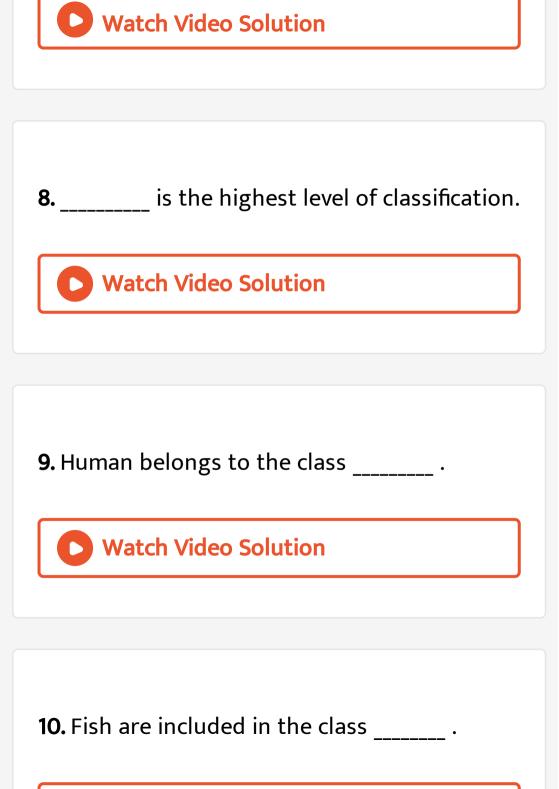


Test Your Concepts Fill In The Blanks



<b>3.</b> Organisms that produce their own food is
called
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<b>4.</b> Paramoecium and Amoeba are included under kingdom
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#### Test Your Concepts

#### **1.** Who is known as father of taxonomy ?

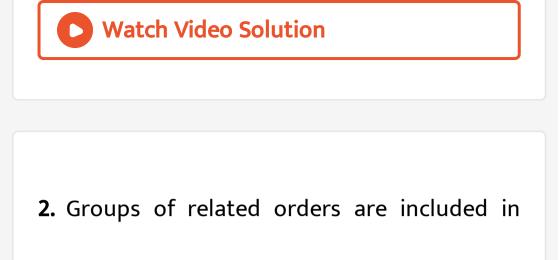
A. Aristotle

B. Linnaeus

C. Whittaker

D. Darwin

Answer: B



A. class

\_\_\_\_\_

B. phylum

C. kingdom

D. family

Answer: A





3. Multicellular autotrophs are included in the

kingdom \_\_\_\_\_

A. fungi

B. protista

C. plantae

D. animalia

#### Answer: C

**4.** Multicellular heterotrophs are included in the kingdom \_\_\_\_\_\_.

A. fungi and animalia

B. protista and fungi

C. protista and animalia

D. monera and protista

Answer: A

**5.** Organisms that obtain food from host organisms is called \_\_\_\_\_\_.

A. saprophytes

B. autotrophs

C. consumers

D. parasites

Answer: D

A. monera

B. protista

C. fungi

D. plantae

Answer: C



**7.** Which one of the following is a wrong statement?

A Nucleus encloses DNA that determines the characters of all living organisms. B. Organisms coming under kingdom monera lack a well-defined nucleus. C. Linnaeus classified animals into different groups according to their habitat.

D. Aristotle classified plants into three

groups based on the stem.

Answer: C

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8. Group of related species is called \_\_\_\_\_

A. genus

B. family

C. order

#### D. class

Answer: A

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**9.** The class Aves includes \_\_\_\_\_ .

A. reptiles

B. amphibians

C. birds

D. fish

#### Answer: C



**10.** Assertion (A): Bacteria come under prokaryotes.

Reason (R): They lack a well-defined nucleus.

A. Both A and R are true, but R is the

correct explanation for A.

B. Both A and R are true, but R is the not

the correct explanation for A.

C. A is true and R is false.

D. A is false and R is true.

Answer: A

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11. Assertion (A): Unicellular eukaryotes come

under the kingdom protista.

Reason (R) : Mode of nutrition can be autotrophic or heterotrophic

A. Both A and R are true, but R is the

correct explanation for A.

B. Both A and R are true, but R is the not

the correct explanation for A.

C. A is true and R is false.

D. A is false and R is true.

Answer: B

Mastering	The	Concepts	Knowledge	And
Understand	ling			

**1.** Give a note on Aristotle's system of classification.

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#### 2. What were the main features selected for

Whittaker's five-kingdom classification?

3. Compare unicellular and multicellular organisms, with one example.
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**4.** Explain the main features of organisms coming under the kingdom fungi.

5. Differentiate between kingdom plantae and

kingdom animalia.

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6. Compare organisms coming under

kingdoms monera and protista.

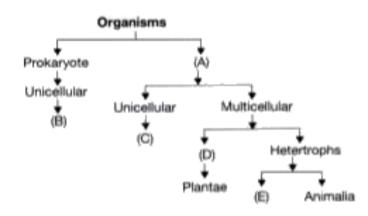
7. What rules have to be followed while writing

a scientific name?

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Mastering The Concepts Application And Analysis

1. Complete the flowchart with missing words.





2. List of some organisms is given below, classify them into different kingdoms in table format.

Dog	Cat
Rose	Staphylococus bacteria
Yeast	Catla fish
Mushroom	Coconut tree
Amoeba	Paramoecium
E.coli bacteria	
Kingdom	Organisms
Monera	
Protista	
Fungi	
Plantae	
Animilia	

**3.** Suppose you accidentally find an old preserved permanent slide without a label. In your effort to identify it, you place the slide

under microscope and observe the following features: Unicellular, no well-defined nucleus and multiple cilia. What would you identify it as? To which kingdom does it belong?

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# 4. Are humans more closed to mouse or

chicken? Explain .

**5.** If you are given the following set of animals, how would you find a common taxon to classify them?

Dog, Wolf, Fox, Jackal.

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6. While writing scientific name of humans, he wrote homo Sapiens. Do you think that this representation of writing scientific name is correct?



7. Banyan tree and algae both are grouped under Kingdom plantae, yet there are remarkable differences in their appearance. What makes them to be grouped together?