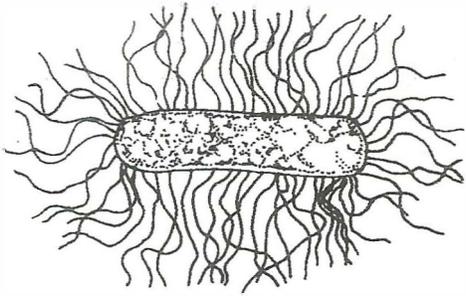


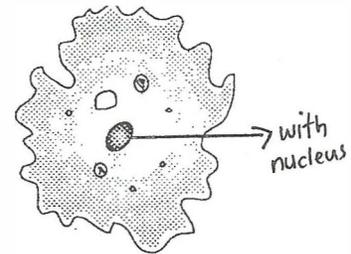
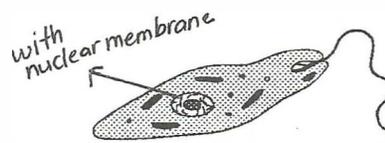
1. Base your answer to the following question on the diagram below and on your knowledge of biology.



This organism is classified in Kingdom Monera because it is

- 1) unicellular and lacks a nucleus
 - 2) multicellular and lacks a nucleus
 - 3) unicellular and contains a nucleus
 - 4) multicellular and contains a nucleus
2. In one modern classification system, organisms are grouped into five
- 1) kingdoms
 - 2) phyla
 - 3) genera
 - 4) species
3. Some species of algae are unicellular, motile, and photosynthetic. Under one modern system of classification, they would be classified as
- 1) mollusks
 - 2) fungi
 - 3) protists
 - 4) tracheophytes
4. In which kingdom is an organism classified if it lacks a membrane separating most of its genetic material from its cytoplasm?
- 1) protist
 - 2) monera
 - 3) plant
 - 4) animal
5. Organisms are grouped into a five-kingdom classification system based on their structure and
- 1) evolutionary relationships
 - 2) habitat
 - 3) food preferences
 - 4) social behavior

6. Organisms are classified into kingdoms primarily on the basis of
- 1) behavior
 - 2) structure
 - 3) size
 - 4) habitat
7. A microorganism observed under a microscope is unicellular and lacks an organized nucleus. This organism is classified as a
- 1) moneran
 - 2) protist
 - 3) fungus
 - 4) plant
8. The diagrams below represent unicellular organisms. In the past, they were difficult to classify as either plants or animals.

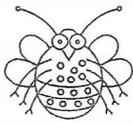
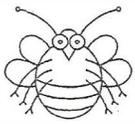


Currently, these organisms are classified as

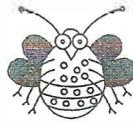
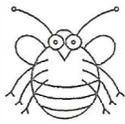
- 1) coelenterates
 - 2) annelids
 - 3) tracheophytes
 - 4) protists
9. A scientist recently discovered a pond organism that is unicellular, contains chloroplasts and other membrane-bound organelles, and possesses a flagellum. In which kingdom is this organism classified?
- 1) monera
 - 2) protista
 - 3) fungi
 - 4) plant
10. According to the five-kingdom classification system, which two groups of organisms are classified as protists?
- 1) bryophytes and tracheophytes
 - 2) coelenterates and annelids
 - 3) protozoa and algae
 - 4) bacteria and chordates

Base your answers to questions **A** and **B** on the diagram below and on your knowledge of biology. The diagram represents six insect species.

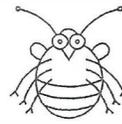
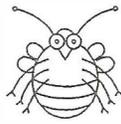
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Species E



Species F



A. A dichotomous key to these six species is shown below. Complete the missing information for sections 5.a. and 5.b. so that the key is complete for all *six* species. [1]

Dichotomous Key

1. a. has small wingsgo to 2
 b. has large wings.....go to 3

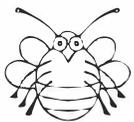
2. a. has a single pair of wingsSpecies A
 b. has a double pair of wingsSpecies B

3. a. has a double pair of wingsgo to 4
 b. has a single pair of wings.....Species C

4. a. has spotsgo to 5
 b. does not have spotsSpecies D

5. a. _____.....Species E
 b. _____.....Species F

B. Use the key to identify the drawings of species A, B, C, and D. Place the letter of *each* species on the line located below the drawing of the species. [1]



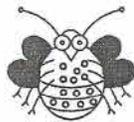
Species _____



Species E



Species _____



Species F



Species _____



Species _____
