



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### The Living World

#### Example

1. What is Ecosystem?



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2. What is classification?



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3. What are halophiles?



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4. What are thermoacidophiles?



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## 5. Define species



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## 6. Define genus



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## 7. What is monotypic genus?



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**8. What is polytypic genus?**



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**9. Define chordata**



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**10. Define Mammalia**



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## 11. Define Primata



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## 12. Define Hominidae



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## 13. Define Homo



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**14. Define Hom sapiens**



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**15. What is nomenclature?**



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**16. What is Binomial Nomenclature?**



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**17. Define tautonym**



**Watch Video Solution**

**18. Define museum**



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**19. Define zoological parks**



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**20.** What is DNA barcoding?



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**21.** What is taxonomical key?



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**22.** Differentiate between probiotic and pathogenic bacteria.



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**23.** What is the difference between a Zoa and wild life sanctuary?



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**24.** Differentiate between probiotic and pathogenic bacteria



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**25.** Why mule is sterile in nature?



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**26.** List any five salient features of the family Felidae.



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**27.** What is the difference between a Zoa and wild life sanctuary?



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**28.** What is the role of Charles Darwin in relation to concept of species?



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**29.** Why elephants and other wild animals are entering into human living area?



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**30.** Can we use recent molecular tools to identify and classify organisms?



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**31.** Explain the role of Latin and Greek names in Biology.



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**32.** Ecosystem





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**33.** What is biological diversity?



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**34.** What is classification?



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**35.** What are taxa in biology?





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**36.** Where does the word tax taxonomy come from?



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**37.** Name the five kingdoms defined by R.H. Whittaker



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**38.** What are the three domains of life?



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**39.** What organisms belong to the domain Archaea?



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**40.** What organisms belong to the domain Bacteria?



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**41.** What organisms belong to the domain Eukarya?



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**42.** Why are archaea called extremophiles?



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**43.** What are halophiles?





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**44.** What are thermoacidophiles?



**Watch Video Solution**

**45.** Define species



**Watch Video Solution**

**46.** Define genus



**Watch Video Solution**

**47. What is monotypic genus?**



**Watch Video Solution**

**48. What is polytypic genus?**



**Watch Video Solution**

**49. Define chordata**



**Watch Video Solution**

**50. Define Mammalia**



**Watch Video Solution**

**51. Define Primata**



**Watch Video Solution**

**52. Define Hominidae**



**Watch Video Solution**

**53. Define Homo**



**Watch Video Solution**

**54. Define Hom sapiens**



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**55. What is Nomenclature?**



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**56. What is Binomial Nomenclature?**



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**57. Write the binomial name for the following common names of animals.**



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**58.** Define tautonym



**Watch Video Solution**

**59.** Define museum



**Watch Video Solution**

**60.** Define zoological parks



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**61.** What are the printed taxonomical tool?



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**62.** What is DNA barcoding?



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**63.** What is the use of DNA hybridization?



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**64.** What is the use of DNA fingerprinting?



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**65.** What is PCR?



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**66.** What does ALIS stand for?



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**67.** What does DAISTY stand for?



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**68.** What does ABIS stand for



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**69.** What does SPIDA stand for



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70. What does draw wing mean?



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71. What do you know about neo taxonomical tools?



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72. What do you know about ethology of taxonomical tools?



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**73. What does INOTAXA mean?**



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**74. What is e-taxonomic resources ?**



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75. When was the Bhupathy's purple frong discovered?



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76. What are the main criteria of systematics?



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77. How did Aristotle classify animals?



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**78.** What is numerical taxonomy?



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**79.** What is meant by phylogenetic classification?



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**80.** Write notes on *Thermus aquaticus*



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**81.** Name the six kingdoms



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**82.** Name the seven kingdoms



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**83.** What are the major categories of hierarchical taxonomic organization?



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**84.** Write the systematics of human being



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**85.** Write the resultant animal when there is a cross between

Male horse with female Donkey



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**86.** Write the resultant animal when there is a cross between

Male donkey with female horse



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**87.** Write the resultant animal when there is a cross between



male lion with female tiger



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**88.** Write the resultant animal when there is a cross between

Male tiger with female lion



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**89.** What is family in classification?



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**90.** What is order in classification?



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**91.** What is class in classification?



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**92.** What is phylum?



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**93.** What is kingdom?



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**94.** Name the classical taxonomical tools.



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**95.** What is taxonomic key?



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**96.** Name some molecular techniques used for taxonomical classification.



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**97.** What is RFLP?



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**98.** Name some Automated Species identification tools or Cyber tools.



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**99.** What may be the reasons for the extinction of Dinosaurs? If you know the reasons for their extinction, why sparros are listed as endangered species.



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**100.** What are the key characters of living organisms?



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**101.** What are the basic needs for classification?



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**102.** Write short notes on Bacteria





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**103.** Write short notes on Eukaryotes.



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**104.** Write short notes on trinomial



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**105.** What are the rules of Nomenclature?





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**106.** Write short notes on concept of species



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## Exercise

**1.** Molecular taxonomic tool consists of

A. DNA and RNA



B. Mitochondria and Endoplasmic  
reticulum

C. Cell wall and Membrane proteins

D. All the above

**Answer:**



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2. A group of organisms having similar traits  
of a rank is

A. Species

B. Taxon

C. Genus

D. Family

**Answer:**



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**3.** Cladogram considers the following characters

A. Physiological and Biochemical

B. Evolutionary and Phylogenetic

C. Taxonomic and systematic

D. None of the above

**Answer:**



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**4. Who proposed five kingdom classification?**

**Mention the five kingdoms.**

A. Cavalier-Smith

B. Carl Woese

C. R.H. Whittake

D. Carolus Linnaeus

**Answer:**



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**5. The term 'systematics' refers to**

A. Identification and classification of plants and animals

B. Nomenclature and identification of plants and animals

C. Diversity of kinds of organisms and their relationship

D. Different kinds of organisms and their classification

**Answer:**



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6. Differentiate between probiotic and pathogenic bacteria.



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7. Why mule is sterile in nature?



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8. What is biological diversity?



**Watch Video Solution**

**9. Define species**



**Watch Video Solution**

**10. What is DNA barcoding?**



**Watch Video Solution**

**11. What is PCR?**



[Watch Video Solution](#)

**12.** List any five salient features of the family Felidae.



[Watch Video Solution](#)

**13.** Name some molecular techniques used for taxonomical classification.



[Watch Video Solution](#)



**14.** What is phylum?



**Watch Video Solution**

**15.** What are the major categories of hierarchical taxonomic organization?



**Watch Video Solution**

**16.** What is RFLP?



**Watch Video Solution**

**17.** What is classification?



**Watch Video Solution**

**18.** Write the basic needs for classification ( any three only ) ?



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**19.** What is order in classification?





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**20. What is Nomenclature?**



[Watch Video Solution](#)

**21. What are the rules of Nomenclature?**



[Watch Video Solution](#)

**22.** Explain the role of Latin and Greek names in Biology.



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**23.** A living organism is differentiated from non-living structure based on .....

A. Reproduction

B. Growth

C. Metabolism

## D. Movement

**Answer:**



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**24.** A group of organisms having similar traits of a rank is

A. Species

B. Genus

C. Taxon

D. Family

**Answer:**



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**25.** Every unit of classification regardless of its rank is .....

A. Taxon

B. Variety

C. Species

D. Strain

**Answer:**



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**26.** Which of the following is not present in same rank?

A. Primata

B. Orthoptera

C. Diptera

D. Insecta

**Answer:**



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**27.** What taxonomic aid gives comprehensive information about a taxon?

A. Taxonomic Key

B. Herbarium

C. Flora



D. Monograph

**Answer:**



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**28. Who coined the term Bio-diversity?**

A. Walter Rosen

B. AG Tansley

C. Aristotle

D. AP de Candolle

**Answer:**



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**29.** Cladogram considers the following characters

- A. Physiological and Biochemical
- B. Evolutionary and Phylogenetic
- C. Taxonomic and systematic
- D. None of the above

**Answer:**



**Watch Video Solution**

**30. Molecular taxonomic tool consists of**

- A. DNA and RNA
- B. Mitochondria and Endoplasmic
- C. Cell wall and Membrane proteins
- D. All the above

**Answer:**



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**31.** Taxonomy is the science of \_\_\_\_\_



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**32.** Who coined the word Taxonomy?



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**33.** Who is the father of Taxonomy?



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34. \_\_\_ is the father of modern taxonomy and found of systematics.



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35. Father of Botany .....

A. Theophrastus

B. Carolus Linnaeus

C. John Ray

D. Aristotle

**Answer:**



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**36.** \_\_\_ published the *methodus plantarum nova*



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37. Binomial nomenclature was introduced by



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38. \_\_\_\_\_ was the founder of modern systematics



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39. \_\_\_\_\_ introduced the method of representing evolutionary relationships with the help of a tree diagram



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**40.** Who proposed five kingdom classification?

Mention the five kingdoms.

A. Cavalier-Smith

B. Carl Woese

C. R.H. Whittaker

D. Carolus Linnaeus

**Answer:**



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41. Three domain classification was proposed by :



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42. Methanogens are \_\_\_\_\_ producing  
Achaebacterium



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**43.** What are cyanobacteria?

- A. All photosynthetic algae
- B. Photosynthetic blue green algae
- C. Photosynthetic Bacteria
- D. Cyanide producing bacteria

**Answer:**



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44. \_\_\_\_\_ revised the six kingdom system to seven kingdom system



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45. Which is the basic unit of classification?



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46. \_\_\_\_\_ popularised the binomial nomenclature



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47. The trinomial nomenclature was proposed by\_\_\_



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48. \_\_\_ established species as the ultimate unit of taxonomy. (He coined the term species).



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49. The book "Systema naturae" was written by\_\_\_\_\_



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50. "Historia Generalis Plantarum" was written by \_\_\_



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51. \_\_\_\_\_ wrote the book origin of species.





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52. \_\_\_\_\_ is the largest zoological park in India.



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53. What is the another name of Arignar Anna zoological park?

A. Kanpur zoological park

B. Vandalur zoological park

C. Rajiv Gandhi zoological park

D. Indira Gandhi zoological park

**Answer:**



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**54.** The scientific name of Bhupathy's purple frog is \_\_\_\_\_



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55. Which one of the following is not an archea bacterium ?

A. Methanogens

B. Halophiles

C. Cyanobacteria

D. Thermoacidophiles

**Answer:**



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56. Halophiles survive in ..... Environment.

- A. Hot environment
- B. Salty environment
- C. Acidic environment
- D. Moisty environmment

**Answer:**



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57. Match the following and select the correct option

- |                                 |              |
|---------------------------------|--------------|
| A. Male horse and Female donkey | - i) Mule    |
| B. Male donkey and Female horse | - ii) Tigon  |
| C. Male lion and Female Tiger   | - iii) Hinny |
| D. Male tiger and Female lion   | - iv) Liger  |

A. A-ii,B-i,C-iv,D-ii

B. A-iii,B-ii,C-i,D-iv

C. A-ii,B-iv,C-i,D=iii

D. A-iv,B-iii,C-ii,D-i

**Answer:**



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58. Match the following and select the correct option

A- Museum

B- DAISY

C – DNA barcoding

D – INOTAXA

- i) e-Taxonomic resources

- ii) Molecular techniques

- iii) Classical tool

- iv) Automated species identification tool

A. A-iv,B-iii,C-i,D-ii

B. A-iii,B-iv,C-ii,D-i

C. A-iii,B-iv,C-i,D=ii

D. A-ii,B-iii,C-iv,D-i

**Answer:**



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59. Select the odd one

A. Museum

B. Zoological park

C. Herbarim

D. Marine park

**Answer:**



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**60.** The term 'systematics' refers to

A. Identification and classification of plant and animals

B. Nomenclature and identification of plants and animals

C. Diversity of kinds of organisms and their relationship

D. Different kinds of organisms and their classification

**Answer:**



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**61. Select the odd one**

- A. Identification cards
- B. Electron microscopy
- C. Description
- D. Field guides

**Answer:**



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