



BIOLOGY

BOOKS - MBD -HARYANA BOARD

DIVERSITY IN THE LIVING ORGANISMS

Example

1. Why do we classify organisms?



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2. Give three examples of the range of variations that you see in life forms around you.



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3. What is the primary characteristic on which the first division of organism is made ?



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4. On what bases are plants and animals put into different categories?



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5. Which organisms are called primitive and how are they different from the so-called advanced organisms?



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6. Will advanced organisms be the same as complex organisms? Why?



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7. What is the criterion for classification of organisms as belonging to kingdom Monera or Protista?



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8. In which kingdom will you place an organism which is single-celled, eukaryotic and photosynthetic?



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9. In the hierarchy of classification, which grouping will have the smallest number of organisms with maximum common characteristics and which will have the largest number of organisms?





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10. Which division among plants has the simplest organisms?



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11. How are pteridophytes different from the phanerogams?



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12. How do gymnosperms and angiosperms differ from each other?



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13. How do poriferan animals differ from coelenterate animals?



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14. How do annelid animals differ from arthropods?



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15. What are the differences between amphibia and reptilia ?



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16. What are the differences between animals belonging to the Aves group and those in the mammalia group?



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17. What are the advantages of classifying organisms ?



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18. How are the criteria for deciding divisions in plants different from the criteria for deciding the subgroups among animals ?



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19. Give a broad outline classification of kingdom plantae.



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20. What are phanerogams ? Write characters of gymnosperms and angiosperms.



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21. Write characters of phylum prortozoa and phylum porifera.



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22. Give diagnostic characters of phylum chordata.



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23. Differentiate taxonomy and systematics.



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24. Why are local names not sufficient to recognize the organisms ? What are the advantages of keeping scientific names ?



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25. What are the basis of Whittaker's system of classification ?



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26. What are the advantages of five kingdom system of classification ?



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27. Name the five kingdoms as proposed by R.H. Whittaker. Give at least one example in each case.



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28. What kinds of organisms are grouped under Protista ?



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29. Write the distinct characters of Fungi.



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30. Make a list of characteristics of kingdom Plantae.



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31. Discuss the general characters of the class Aves or Mammalia.



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32. What is binomial nomenclature ? Illustrate with an example.



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33. Give some examples of binomial nomenclature



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34. Write some advantages of binomial nomenclature



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35. Write distinguishing features of division Thallophyta.



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36. Write three characters of Algae. Give examples.



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37. What are lichens ?



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38. Write important characters of division Bryophyta.



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39. List four important features of Pteridophytes.



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40. What are the two main divisions of angiosperms on the basis of number of cotyledons.



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41. Write two differences between gymnosperms and angiosperms.



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42. Write three features of kingdom Animalia.



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43. Write unique features of Coelenterates (cnidarians).



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44. Write characters of flatworms. Give example.



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45. Write features of roundworms.



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46. List unique features of phylum Annelida.
Give examples.



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47. List three important distinguishing characters of phylum Arthropoda.



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48. Write unique features of phylum Mollusca.
Give three examples.



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49. What are Echinoderms ?



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50. Write five examples of echinoderms.



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51. List three characters of phylum COLLAR Hemichordata. Give one example.



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52. Give the general characteristics of the vertebrates



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53. Differentiate exoskeleton and endoskeleton.



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54. Write characters of class Pisces.



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55. List distinguishing characters of cartilaginous fishes.



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56. List distinguishing features of bony fishes.



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57. Give a few features of class Amphibia.



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58. Write distinguishing features of class Reptilia.



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59. Write distinct features of class Aves.



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60. Write distinguishing features of class Mammalia.



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61. Write differences between chardates and non-chardates.



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62. What is Classification ?



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63. Who is the father of taxonomy ?



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64. Define a species



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65. Name the two groups according to old system of classification.



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66. Who devised binomial nomenclature ?



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67. Write two sub-groups of plant kingdom.



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68. Why are algae green in colour ?



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69. How do fungi obtain their food ?



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70. Name two kinds of angiospermic plants.



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71. Name the respiratory organ of fishes.



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72. How many chambers are present in the heart of a fish?



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73. Give examples of bony fishes.



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74. Write examples of phylum Echinodermata.



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75. Write examples of phylum Urochordata.



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76. Give one example of cartilaginous fish.



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77. What is the name of excretory structure of flatworms ?



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78. Name the body cavity of Nematodes.



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79. Give the habitat of Ascaris.



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80. Name any two mammals.



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81. Name the plant having life span of more than thousand years.



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82. Which division of biology helps us in exploring the diversity of life forms ?



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