



BIOLOGY

BOOKS - PREMIERS PUBLISHERS

THE LIVING WORLD

Evaluation Textbook Questions Answers Mcq

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

A. Reproduction

B. Growth

C. Metabolism

D. All the above

Answer: D



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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: A



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3. Every unit of classification regardless of its rank is

A. Taxon

B. Variety

C. Species

D. Strain

Answer: A



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

A. Primata

B. Orthoptera

C. Diptera

D. Insecta

Answer: A



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5. What taxonomic aid gives comprehensive information about a taxon?

A. Taxonomic Key

B. Herbarium

C. Flora

D. Monograph

Answer: A



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6. Who coined the term Bio-diversity?

A. Walter Rosen

B. AG Tansley

C. Aristotle

D. AP de Candolle

Answer: A



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7. Cladogram considers the following characters

A. Physiological and Biochemical

B. Evolutionary and Phylogenetic

C. Taxonomic and systematic

D. None of the above

Answer: B



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8. Molecular taxonomic tool consists of

A. DNA and RNA

B. Mitochondria and Endocoplamic
reticulum

C. Cell wall and Membrane proteins

D. All the above

Answer: A



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**Evaluation Textbook Questions Answers Answer
The Following Questions**

1. Differentiate between probiotic and pathogenic bacteria



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2. Why mule is sterile in nature?



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3. List any five salient features of the family Felidae.



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



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



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



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



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8. Explain the role of Latin and Greek names in Biology.



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Other Important Questions Answers Mcq

1. The term biodiversity was first introduced by

.....

A. A. G. Tansley

B. Walter Rosen

C. Aristotle

D. AP de Candolle

Answer: B



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2. Who is the father of Taxonomy?

A. Carolus Linnaeus

B. Aristotle

C. Theophrastus

D. John Ray

Answer: B



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3. The word taxonomy was coined by:

A. AP de Candolle

B. Ernst Haeckel

C. Carl Woese

D. Smith

Answer: A



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4. ___ is the father of modern taxonomy and found of systematics.

A. John Ray

B. Huxley

C. Darwin

D. Carolus Linnaeus

Answer: D



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5. According to Aristotle, the animals with red blood cells are called:

A. Anaima

B. chromista

C. Enaima

D. Protozoa

Answer: C



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6. The five kingdom classification was given by

..... .

A. Walter Rosen

B. R.H. Whittaker

C. AG Tansley

D. Bauhin

Answer: B



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7. Three domain classification was proposed by

:

A. Carl Woese

B. Huxley,

C. Varad Giri

D. Aristotle

Answer: A



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8. Prokaryotes which have the ability to grow in extreme conditions are called:

A. Probiotic

B. Pathogenic

C. Extremophiles

D. Archaea

Answer: C



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9. Bacterial cell wall contains _____

A. Glycogen

B. Peptidoglycans

C. Polypeptides

D. Histones

Answer: B



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10. Seven kingdom classification was proposed
by

A. Cavalier-Smith

B. Adams

C. AG Tansley

D. Walter Rosen

Answer: A



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11. The cross between male lion and female tiger results in the production of

- A. Mule
- B. Tigon
- C. Liger
- D. Felis

Answer: C



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12. The scientific name of human is:

A. Homo erectus

B. Homo sapiens

C. Emberi

D. Umano

Answer: B



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13. The binomial name of Indian National Bird is:

- A. *Pavo cristatus*
- B. *Homo sapiens*
- C. *Ailurus fulgens*
- D. *Felis margarita*

Answer: A



14. The binomial name of National animal of India is:

- A. *Panthera tigris*
- B. *Corvus splendens*
- C. *Felis domestica*
- D. Liger

Answer: A



15. "Origin of species' the book that explains the evolutionary connections of species by the process of natural selection, written by:

A. Linnaeus

B. Aristotle

C. Darwin

D. Lamark

Answer: C



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16. India has about number of threatened species of animals as per the data given IUCN.

A. 172

B. 72

C. 127

D. 721

Answer: A



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Other Important Questions Answers Answer The Following Questions

1. Define ecosystem.



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2. What is biological diversity?



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3. What is classification?



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4. What are the key characters of living organisms?



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5. Define Taxonomy.



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6. What are the basic principles of classification



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7. What are the main criteria of systematics?



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8. How did Aristotle classify animals?



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9. What is cladistics?



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10. Define cladogram?



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11. What are the points to be followed to draw a cladogram?



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12. Who proposed five kingdom classification?

Mention the five kingdoms.



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13. Which aspect paved the way for three domain classification?



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14. Who proposed three domain classification?

What are the features of this classification?



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15. What are the three domains of living things? Write it with examples.



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16. Why are archaea called extremophiles?



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17. Define the following terms

(i) Halophiles,



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18. Define the following terms

(ii) Methanogens



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19. Define the following terms

(iii) Thermoacidophiles



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20. Name the two broad classification of bacteria?



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21. What is the role of Cyanobacteria during early geologic periods?



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22. Classify organisms on the basis of seven kingdom system.



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23. Define species



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24. Differentiate monotypic and polytypic genus?



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25. What is taxonomic family?



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26. What is class in classification?



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27. Write the resultant animal when there is a cross between

Male donkey with female horse



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28. Write the resultant animal when there is a cross between

male lion with female tiger



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29. Write the resultant animal when there is a cross between

Male tiger with female lion



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30. What is Binomial nomenclature? What is its significance?



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31. Write down the binomial names for the following,
(iii) National Bird of India,



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32. Write down the binomial names for the following,
(iii) National Bird of India,



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33. Write down the binomial names for the following,
(iii) National Bird of India,



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34. When do the system of trinomial nomenclature is followed?



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35. What are the rules of Nomenclature?



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36. Why are molecular tools used now to study taxonomy ?



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37. What are the components of taxonomical tools



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38. Differentiate Museum from zoological park



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39. Why are molecular tools used now to study taxonomy ?



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40. Give the abbreviations for the following:

ALIS, DAISY, ABIS, SPIDA.





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41. What are neo-taxonomical tools?



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



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43. What is e-taxonomic resources ?



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44. What is Tautonymy?



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45. What kind of adaptations extremophiles have to live in the extreme conditions.



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46. Why *T. aquaticus*, is used in PCR?



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47. If you discover new species how will you name them binomially?



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48. Why pig nosed frog in India is called Bhupathy's purple frog?



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49. Where did they discover a freshwater jelly fish in Tamilnadu?



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50. What are the newly discovered species in India?



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51. How can we save endangered species?



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52. What are the components of taxonomical tools



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Solution To Textual Questions

1. If you find an animal with four legs, with two eyes, paired ear pinna, covered with fur, possessing mammary gland, which class will you position it? How will you give a binomial name, if you are the first person to discover and report that animal.



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2. 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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