



**Test / Exam Name:** Biology - The Living World      **Standard:** 11th Science      **Subject:** Biology  
**Student Name:** .....      **Section:** .....      **Roll No.:** .....  
**Questions:** 28      **Time:** 01:45 hh:mm      **Marks:** 50

**Instructions**

1. Make sure to write in the point formation. You handwriting should be neat and clean
2. New section on new page
3. Honesty is the best policy.

**SECTION-A**

- Q1.** The National botanical garden is located at:      **1 Mark**  
**A** Kolkata      **B** Dehradun      **C** Lucknow      **D** Ootacamund
- Q2.** National Botanical Research Institute is located in:      **1 Mark**  
**A** Shimla.      **B** Dehradun.      **C** Howrah.      **D** Lucknow.
- Q3.** The Phylogenetic system of classification was put forth by:      **1 Mark**  
**A** Theoprastus.      **B** George Benthham and Joseph Dalton Hooker.      **C** Carolus Linnaeus.      **D** Adolf Engler and Kari Prantl.
- Q4.** Which is the highest in the hierarchy of taxonomic categories?      **1 Mark**  
**A** Genus      **B** Family      **C** Order      **D** Class
- Q5.** First life on earth was:      **1 Mark**  
**A** Cyanobacteria.      **B** Chemoheterotrophs.      **C** Autotrophs.      **D** Photoautotrophs.
- Q6.** Which of the following taxonomical ranks contain organisms least similar to the other similar taxon?      **1 Mark**  
**A** Class      **B** Genus      **C** Family      **D** Species
- Q7.** **Directions:** In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:      **1 Mark**  
**Assertion:** Exotoxins are released by Gram +ve bacteria causing diseases to animals.  
**Reason:** Exotoxins are proteins that react with WBC of animals.

- A** If both Assertion and Reason are true and Reason is the correct explanation of Assertion.      **B** If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- C** If Assertion is true but Reason is false.      **D** If both Assertion and Reason are false.
- Q8.** **Directions:** In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:      **1 Mark**  
**Assertion:** Some bacteria have the capacity to retain Gram stain after treatment with acid alcohol  
**Reason:** They are known as gram positive as they are attracted towards positive pole under influence of electric current
- A** If both Assertion and Reason are true and Reason is the correct explanation of Assertion.      **B** If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- C** If Assertion is true but Reason is false.      **D** If both Assertion and Reason are false.
- Q9.** *Musca* is the Scientific/ generic name of \_\_\_\_\_.      **1 Mark**
- Q10.** A pair of contrasting characters in a taxonomic key, is called a \_\_\_\_\_.      **1 Mark**
- Q11.** Higher the category, more will be the number of common characteristics of the organisms belonging to that category. (True/ False)      **1 Mark**
- Q12.** Which of these has more number of replace, an order or a family.      **1 Mark**
- Q13.** Arrange the following taxonomic categories in r proper sequence:      **1 Mark**  
Genus, Order, Family, Species, Phylum.
- Q14.** Define species.      **1 Mark**
- Q15.** What is a Monograph?      **1 Mark**
- Q16.** Complete the given sequence of taxonomic categories:      **1 Mark**  
Species → Genus → (a) → Order → (b) → Phylum → Kingdom.
- Q17.** What is biodiversity?      **1 Mark**

**SECTION-B**

- Q18.** Name the four processes that are basic to taxonomy.      **2 Marks**
- Q19.** List any two differences between anabolism and catabolism.      **2 Marks**
- Q20.** What is the similarity and dissimilarity between "whole moon daal" and "broken moon daal" in terms of respiration and growth? Based on these parameters classify them into living or nonliving?      **2 Marks**
- Q21.** Why there is a need to standardise the system of naming of living organisms?      **2 Marks**
- Q22.** Name the multiple levels of body organization in living things.      **3 Marks**
- Q23.** List out the advantages of binomial nomenclature.      **3 Marks**

- Q24.** Write any three advantages of scientific names.      **3 Marks**
- Q25.** What is the difference between flora, fauna and vegetation? *Eichhornia crassipes* is called as an exotic species while *Rauwolfia serpentina* is an endemic species in India. What do these terms exotic and endemic refer to?      **3 Marks**

**SECTION-C**

**Q26.**      **4 Marks**

S.No	Column I	S.No	Column II
a.	Botanical gardens	1.	Collection of preserved plant and animal specimens
b.	Taxonomic Key	2.	Dried and pressed plant specimens preserved on sheets
c.	Herbarium	3.	A tool to identify plants and animals based on dissimilarities
d.	Museum	4.	Collections of living plants for reference and identifi caton.

- Q27.** Metabolism is a defining feature of all living organisms without exception. Isolated metabolic reactions in vitro are not living things but surely living reactions. Comment.      **4 Marks**
- Q28.** A scientist has come across a plant which he feels is a new species. How will he go about its identification, classification and nomenclature.      **5 Marks**