

Class: XI
Subject: Biology
Topic: The living world
No. of Questions: 25

- Q1. Why are living organisms classified?
- Q2. Define a taxon. Give some examples of taxa at different hierarchical levels.
- Q3. Define and understand the following terms:
- a) Phylum –
 - b) Class –
 - c) Family –
 - d) Order –
 - e) Genus –
- Q4. How is a key helpful in the identification and classification of an organism?
- Q5. Illustrate the taxonomical hierarchy with suitable examples of a plant and an animal.
- Q6. Define species.
- Q7. What is systematic?
- Q8. Give the names of two famous botanical gardens.
- Q9. What is the basis of modern taxonomical studies?
- Q10. Why growth and reproduction cannot be taken as defining property of all living organisms?
- Q11. How is a taxon defined?
- Q12. What is the difference between Botanical garden and Herbarium?

- Q13. What are the universal rules of nomenclature? What does 'Linn' refer to in *Mangifera indica* Linn?
- Q14. *Brassica campestris* Linn
- Give the common name of the plant.
 - What do the first two parts of the name denote?
 - Why are they written in italics?
- Q15. Give Mayr's definition of a species.
- Q16. Briefly explain polytypic genus.
- Q17. Briefly distinguish between holotype and neotype specimen.
- Q18. Explain why *Amoeba* is living and a sand particle is non living matter?
- Q19. What changes are needed to change the convert a sand particle into a prokaryotic cell?
- Q20. Do you think zoological parks, museum and botanical gardens are meant for recreational purpose or they have some scientific value?
- Q21. Which one of the following organisms is scientifically correctly named, correctly printed according to the International Rules of Nomenclature and correctly described?
- Musca domestica* – the common house lizard, a reptile
 - Plasmodium falciparum* – a protozoan pathogen causing the most serious type of malaria
 - Felis tigris* – the Indian tiger, well protected in Gir forests
 - E. coli* – full name *Entamoeba coli*, a commonly occurring bacterium in human intestine.

- Q22. A group of related genera, with still less number of similarities as compared to the genus and species, constitutes
- a) Order
 - b) Class
 - c) Family
 - d) Division
- Q23. Botanical gardens and zoological parks have
- a) Collection of endemic living species only
 - b) Collection of exotic living species
 - c) Collection of endemic and exotic living species
 - d) Collection of only local plants and animals
- Q24. The botanical name of soybean is
- a) *Cajanus cajan*
 - b) *Glycine max*
 - c) *Glycyrrhiza glabra*
 - d) *Dolichos lablab*
- Q25. The famous botanical garden of Kew is located in
- a) India
 - b) England
 - c) Germany
 - d) France