

Time : 1 hour 15 Minute

STD 11 Science Biology
Chapter Based Test

Total Marks : 40

SECTION A

* Choose The Right Answer From The Given Options.[1 Marks Each] [5]

- Keystone species are:
(A) Important for ecosystem. (B) Important for plants.
(C) Endangered species. (D) Extinct species.
- Which of the following is a defining characteristic of living organisms?
(A) Growth. (B) Ability to make sound.
(C) Reproduction. (D) Response to external stimuli.
- Reason of diversity in living being is:
(A) Mutation.
(B) Gradual change.
(C) Long term evolutionary change.
(D) Short term evolutionary change.
- Arboretum is:
(A) A forest patch.
(B) A piece of social forestry.
(C) Botanical garden with trees.
(D) Botanical garden with cacti and herbs.
- The usage of binomial names, for plant species was accepted by all after the publication of the work by:
(A) Darwin. (B) Linnaeus.
(C) Hooker. (D) None of these.

* Answer The Following Questions In One Sentence.[1 Marks Each] [6]

- Name two organisms that do not reproduce at all to any stimulus.
- Complete the given sequence of taxonomic categories:
Species → Genus → (a) → Order → (b) → Phylum → Kingdom.
- Define species.
- Growth cannot be considered as a defining property of living beings. Justify.
- What does a couplet in a key represent?
- Write a brief note on three domains of life.

SECTION B

* **Given Section consists of questions of 2 marks each.** [6]

1. Name the four processes that are basic to taxonomy.
2. Write five characters which make you think that cockroaches and mentis belong to same phylum.
3. Why is death considered as regulatory process on the earth?

SECTION C

* **Given Section consists of questions of 3 marks each.** [9]

1. Ria went to see the zoo in her town with her parents and saw many wild animals, their food habits, behaviour, etc. She saw that there was a wide variety of animal life in the zoo. But she was amazed to see that the board placed in front of lion cage and monkey place which tells that both were mammals. However, she thought that they were totally different in appearance.
 - i. Why lions and monkeys are considered to be mammals?
 - ii. Explain the scientific reason to maintain a zoological park.
 - iii. Is there any similar place to see a variety of plants? If any, then name some.
 - iv. What values are shown by Ria?
2. The number and kinds of organism is not constant. How do you explain this statement?
3. What is the difference between two stages of metabolism?

SECTION D

* **Case study based questions** [4]

1. Illustrate the taxonomical hierarchy with suitable examples of a plant and an animal.

SECTION E

* **Given Section consists of questions of 5 marks each.** [10]

1. Can you identify the correct sequence of taxonomical categories?
 - a. Species → Order → Phylum → Kingdom
 - b. Genus → Species → Order → Kingdom
 - c. Species → Genus → Order → Phylum
2. How do you prepare your own herbarium sheets? What are the different tools you carry with you while collecting plants for the preparation of a herbarium? What information should a preserved plant material on the herbarium sheet provide for taxonomical studies?

॥ ज्ञानं एव श्रमस्य पुंजः ॥