

KENDRIYA VIDYALAYA SITAPUR (FIRST SHIFT)
UNIT TEST-I SET-1 Session -2022-23
CLASS XI SUB-BIOLOGY

Time: 90 Minutes

General Instructions:

1. The Question Paper contains four sections.
2. Section A contains 9 questions of 1 mark each.
3. Section B contains 3 questions of 1 mark each.
4. Section C has 3 questions.
5. Section D has 11 questions marks indicated against each questions.
5. All questions are compulsory. Draw diagram where needed.

SECTION - A

1. The expansion of ICBN is.
 - a) International code of botanical nomenclature
 - b) International class of botanical nomenclature
 - c) Indian code of botanical nomenclature
 - d) Indian class of botanical nomenclature
2. International Code of Biological Nomenclature is applied to *
 - a) Plants
 - b) Animals
 - c) Both Plants and Animals
 - d) Virus
3. Which one is the correctly written scientific name of mango?
 - a) MANGIFERA INDICA
 - b) Mangifera Indica
 - c) Mangifera indica
 - d) Mangifera indica
4. Binomial nomenclature was given by:
 - a) Carolus Linnaeus.
 - b) Dr Hargovind khurana
 - c) R H Whittaker
 - d) None of these
5. Which among the five kingdom system of classification do not possess nuclear membrane?
 - a) Kingdom Monera
 - b) Kingdom Fungi
 - c) Kingdom Plantae
 - d) Kingdom Protista
6. Which of the following organisms were placed together under algae? *
 - a) Spirogyra and Chlamydomonas
 - b) Spirogyra and Chlorella
 - c) Chlorella and Chlamydomonas
 - d) All of the above
7. The function of heterocyst in nostoc is:-
 - a) Reproduction
 - b) Storing food
 - c) Nitrogen fixation
 - d) All of the above
8. Which of the following is a liverwort?
 - (a) Sphagnum
 - (b) Funaria
 - (c) Marchantia
 - (d) Polytrichum
9. Antheridia and Archegonia are sex organs of
 - (a) Moss
 - (b) Mucor
 - (c) Spirogyra
 - (d) Puccinia

SECTION - B

Question No. 10 to 12 consist of two statements –

Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true and R is not the correct explanation of A
- C. A is true but R is false
- D. A is False but R is true

10. Assertion:- Viruses are connective link between living and non-living.

Reason:- They behave like nonliving when they enter in a living cell.

11. Assertion:-Fungi are eutrophic in nature.

Reason: - Fungi have cell wall made of chitin.

12. Assertion:-Homo is the generic and sapiens is the specific name of human.

Reason:-both specific and generic name should be written in italics.

SECTION - C

Section-C, Consists of one case followed of 3 questions linked to this case (Q.No.13 to 15).

CASE -The pollen grains germinate on the stigma and the resulting pollen tubes grow through the tissues of stigma and style and reach the ovule. The pollen tubes enter the embryo-sac where two male gametes are discharged. One of the male gametes fuses with the egg cell to form a zygote (syngamy). The other male gamete fuses with the diploid secondary nucleus to produce the triploid primary endosperm nucleus (PEN). Because of the involvement of two fusions, this event is termed as double fertilisation, an event unique to angiosperms. The zygote develops into an embryo (with one or two cotyledons) and the PEN develops into endosperm which provides nourishment to the developing embryo. The synergids and antipodals degenerate after fertilisation. During these events the ovules develop into seeds and the ovaries develop into fruit

13. It is the life cycle of which group of organism?

- a) Algae
- b) Fungi
- c) Gymnosperms
- d) Angiosperms

14. What is the product of fusion of first male gamete and egg cell?

- a) PEN
- b) Zygote
- c) Seed
- d) None of the above

15. What is ploidy of PEN?

- a) Haploid
- b) Diploid
- c) Triploid
- d) None of the above

SECTION –D

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| 16. Classify human as per different taxonomical categories. | 1 |
| 17. Where are Indian botanical garden and national botanical garden located? | 1 |
| 18. Which fungi is known as rust fungi? It belongs to which class? | 1 |
| 19. What is capsid? It belongs to which organism? | 1 |
| 20. Trimerous flower and scattered vascular bundle are found in which group of flowering plants? | 1 |
| 21. Draw the diagram of a bacteriophage virus and label any four parts. | 2 |
| 22. Write any four characteristics of kingdom monera. | 2 |
| 23. What are the universal rules for the nomenclature of living things? Write any three points. | 3 |
| 24. Describe the important characteristics of gymnosperms. | 3 |
| 25. (a) Draw a well labeled diagram of life cycle of angiosperms. | 3 |
| (b) what is triple fusion and what is its product? | 2 |

26.(a) What do you mean by Mycobiont and Phycobiont in respect of lichens what are their functions? 3

(b) How can you decide that viruses are connective link between living and non living? 2

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