

KENDRIYA VIDYALAYA SITAPUR (FIRST SHIFT)

UNIT TEST-I Session -2023-24

CLASS XI SUB-BIOLOGY

Time: 90 Minutes

MM-40

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 ICZN is.
 - a) International code of Zoological 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 human?
 - a) HOMO SAPIENS
 - b) Homo Sapiens
 - c) Homo sapiens
 - d) Homo sapiens
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 Fungi
 - b. Kingdom Monera
 - c. Kingdom Plantae
 - d. Kingdom Protista
6. Which of the following organisms are not placed together under algae? *
 - a) Spirogyra and Chlamydomonas
 - b) Spirogyra and amoeba
 - c) Chlorella and Chlamydomonas
 - d) none of these
7. The function of heterocyst in nostoc is:-
 - a) Reproduction
 - b) Storing food
 - c) Nitrogen fixation
 - c) All of the above
8. Limulus belong to which phylum?
 - (a) Echinodermata
 - (b) Annelida
 - (c) Arthropoda
 - (d) Mollusca
9. Antheridia and Archegonia are sex organs of
 - (a) Moss
 - (b) Mucor
 - (c) Spirogyra
 - (d) Puccinia
10. The animals in which body cavity is absent are called:-
 - (a) Coelomated
 - (b) Pseudocoelomates
 - (c) Acoelomates
 - (d) all of these
11. Comb plates perform the function of :-
 - (a) Reproduction
 - (b) respiration
 - (c) Locomotion
 - (d) none of these

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

12. Assertion:- Viruses are connective link between livings and non-livings.

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

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

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

SECTION - C

Section-C, Consists of one case followed of 3 questions linked to this case

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

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

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

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

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

16. What is the product of triple fusion?

- a) Zygote (b) Endosperm (c) Nucellus (d) none of these

SECTION -D

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| 17. Classify human as per different taxonomical categories. | 1 |
| 18. What do you mean by diatomaceous earth'.? | 1 |
| 19. Which fungi is known as rust fungi? It belongs to which class? | 1 |
| 20. Water vascular system and radial symmetry is special features of which phylum? | 1 |
| 21. What is the difference between direct and indirect development? | 1 |
| 22. What are mycorrhiza? | 1 |
| 23 Name the organs of excretion in annelids and arthropods. | 1 |
| 24. Explain about three classes of algae on the basis of major pigments and stored food in them. | 2 |
| 25.. What are the four universal rules for the nomenclature ?. | 2 |
| 26.. Write any four characteristics of kingdom monera. | 2 |
| 27.. Write any three differences between dicot and monocots. | 3 |
| 28. Write any three characteristics of class Aves with two examples.. | 3 |
| 29.(a) Draw a well labeled diagram of life cycle of angiosperms. | 3 |
| (b) Write any two differences between chordates and nonchordates. | 2 |

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