

PM SHRI KENDRIYA VIDYALAY SITAPUR (FIRST SHIFT)

PERIODIC TEST -1 (2024-2025)

CLASS - XI

SUBJECT – BIOLOGY

TIME - 90 MINUTES

Multiple choice questions (6×1 = 6 MARKS)

Q 1. Given below is the scientific name of lion identify the correct return name. (1M)

- (a) Pantheor Leo (b) *Panthera leo*
(c) panthera Leo. (d) Panthers leo

Q2. Identify the correct sequence of taxonomical categories . (1M)

- (a) Species -Order – Phylum- Kingdom (b) Genus - Species - Order - Kingdom
(C)Species -Genus - Order -Phylum (d) Kingdom – Phylum - Genus -Order

Q3. Fusion of to nucleic called as ? (1M)

- (a) Plasmogamy (b) Karyogamy
(c)Dikaryon (d) both a and b

Q4. Rust disease of wheat is caused by ? (1M)

- (a) *Yeast* (B) *Penicillium*
(b) *Puccinia* (D) *Phytophthora*

Q5. In which of the following zygotic meiosis present? (1M)

- (a) Bryophyte (b) Gymnosperm
(c) Algae (d) Algae and fungi both

Q6. Which of the following is abnormally folded protein? (1M)

- (a) Virus (b) Prions
(c) Viroids (d) Phycobiont

Fill in the blank (1×1 = 1 MARKS)

Q7. Binomial nomenclature given by..... (1M)

One word/ one sentence type . (3×1=3 MARKS)

Q8. Who proposed five kingdom classification? (1M)

Q9. Bacteria belongs to which Kingdom ? (1M)

Q10. What role do vascular tissues play in the classification of Pteridophytes? (1M)

True / false questions (3×1=3 MARKS)

Q11. Selaginella is heterosporous. (T/F) (1M)

Q 12. Mycoplasma are smallest living cell known and can survive without oxygen (T/F) (1))

Q13. Biodiversity is a key concept in biology, referring to the variety of living organisms in different ecosystems. . (T/F). (1M)

Q14 . Assertion- reason question . (1 MARKS)

Assertion (A): Archaea Bacteria and Eubacteria are grouped under the domain Prokaryote.

Reason : Both Archaea Bacteria and Eubacteria belongs to kingdom protista.

- (a) Both Assertion and Reason are correct, and the Reason is the correct explanation for the Assertion.
- (b) Both Assertion and Reason are correct, but the Reason is not the correct explanation for the Assertion.
- (c) Assertion is correct, but the Reason is incorrect.
- (d) Assertion is incorrect, but the Reason is correct.

Q 15. Match the column. (1×4 =4 MARKS)

Column 1

Column 2

- | | |
|--------------------|--|
| (a) Bryophytes. | (A) Seedless vascular plants |
| (b) Pteridophytes. | (B) Seed-producing plants with exposed seeds |
| (C) Gymnosperms. | (C) Non-vascular plants |
| (d) Angiosperms. | (D) Flowering plants with seed enclosed in fruits. |

Q16 Case based question (2×1=2 MARKS)

Case Study: The Discovery of New Plant Species

Researchers have recently discovered a new plant species in a tropical rainforest. The plant has the following characteristics:

- (a) It has vascular tissues and reproduces through spores.
- (b) It lacks seeds and flowers.
- (c) It thrives in moist, shaded environments.

The plant is observed to have structures similar to ferns and horsetails. The researchers are trying to classify this new plant species.

Questions

17. Based on the characteristics described, which group of the plant kingdom does the new species most likely belong to? (1M)

18. Why is the presence of spores important for the classification of this plant species? (1M)

Short answer question (3+2= 5MARKS)

Q19. Give the brief account of universal rule of nomenclature. (3M)

Q20. What are the key features that distinguish the Kingdom Protista from the other kingdoms? (2M)

Long answer question

Q21 A) Explain the term “taxonomy” and its importance in biology. (1M)

Q22.. B) What is the primary criterion used to classify organisms into different kingdoms? (1M)

Q23 (C) Describe the concept of “species” in biological classification and explain how species are identified and classified. (3M)

Q24 . Describe the distinguishing features of the Kingdom Fungi and explain how they differ from the Kingdom Plantae. (5M)

Q25. Difference between chlorophyceae , phaeophyceae and rhodophyceae . (5M)