

BIOLOGY STANDARD XI

Worksheet 2.4 Biological Classification

Chose the correct answer :

1. On the basis of nucleus, virus should be placed under
a. Prokaryotes b. Eukaryotes c. Mesokaryotes d. None of the above.
2. Which is correct about viruses ?
a. They are obligate parasites b. Nucleic acid is present in capsid
c. They possess both DNA and RNA d. They have their own metabolic system.
3. Genetic material of a retrovirus is
a. DNA b. RNA c. DNA and RNA d. Either DNA or RNA.
4. Infectious proteins are present in
a. Prions b. Viroids c. Satellite viruses d. Gemini viruses.
5. Virus envelope is known as
a. Virion b. Nucleoprotein c. Core d. Capsid.
6. A dikaryon is formed when
a. Meiosis is arrested b. The two haploid cells do not fuse immediately
c. Cytoplasm does not fuse d. None of the above
7. *Contagium vivum fluidum* was proposed by
a. D.J. Ivanowsky b. M.W. Beijerinck c. Stanley d. Robert Hook
8. Mycobiont and Phycobiont are found in
a. Mycorrhiza b. Root c. Lichens d. BGA
9. Difference between Virus and Viroid is
a. Absence of protein coat in viroid but present in virus
b. Presence of low molecular weight RNA in virus but absent in viroid
c. Both a and b d. None of the above
10. With respect to fungal sexual cycle, choose the correct sequence of events
a. Karyogamy, Plasmogamy and Meiosis b. Meiosis, Plasmogamy and Karyogamy
c. Plasmogamy, Karyogamy and Meiosis d. Meiosis, Karyogamy and Plasmogamy

Answer the following questions.

Q 1. Give scientific name of species of fungus:-

- a) Produces a plant disease. b) Is edible c) A source of antibiotic
d) Used in manufacture of ethanol.

Q 2. Name the fungus causes the rust of wheat?

Q 3. Why are some fungi grouped under “fungi imperfecti”?

Q 4. How are viroids different from viruses?

Q 5. What are distributed organisms which have not been included under any kingdom?

Q 6. Write the distinct characters of fungi & explain using a diagram.

Q 7. Explain the various methods of asexual & sexual reproduction in fungi?

References:

1 NCERT Text Book of Biology, Class XI

2 Biology Exemplar class XI

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