

UNIT- 1- LIVING WORLD

I. Answer in brief (2/3 marks)

1. Define growth.
2. Mention the methods asexual reproduction.
3. What is homeostasis?
4. What are the differences between anabolism and catabolism?
5. What is prophage?
6. Define the terms: virion, viroid and virusoids?
7. What are prions?
8. What is glycocalyx?
9. What is nucleoid or genophore?
10. What are fimbriae / pili?
11. What are endospores?
12. What are archaebacteria?
13. What are mycoplasma / mollicutes?
14. What are actinomycetes / actinobacteria?
15. What is plectenchyma? Mention the types.
16. Name the methods of sexual reproduction in fungi?
17. What is ascocarp? Mention the types.
18. What is dolipore septum?
19. What are deuteromycetes?
20. What are mycorrhizae?

II. Answer in a paragraph (5 marks)

1. What are the living and nonliving characteristics of viruses?
2. Describe the structure of TMV.
3. Describe the structure of Bacteriophage.
4. Explain the lytic cycle or virulent cycle in bacteriophage.
5. Explain the lysogenic cycle or Avirulent cycle in bacteriophage.
6. Give an account of five kingdom classification or whittaker's classification. Add a note on its merits and demerits.
7. Write a short note on flagellation in bacteria.
8. Describe the structure of a bacterial cell.
9. Give an account of Gram staining.
10. Give an account of nutrition in bacteria.
11. Write a short note on 1. Conjugation 2. Transformation and 3. Transduction.
12. Give an account of economic importance of bacteria.
13. Write a short note on cyanobacteria.
14. Write a short note on asexual reproduction in fungi.
15. Write a short note on Ascomycetes and Basidiomycetes.
16. Give an account of economic importance of fungi.
17. Give an account of Lichens.