

B.Sc. Sem-I Examination

CC 3 Paper-101

Env. Science

July 2021

Time : 2-00 Hours]

[Max. Marks : 50

Instructions:

1. Draw figures wherever necessary.
2. Write question number against each answer.
3. Answer any three out of initial eight main questions. Question 9 is compulsory.

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| 1. | (A) Write about theory of panspermia. | 7 |
| | (B) Distinguish between prokaryotic and eukaryotic cell with example. | 7 |
| 2. | (A) Discuss about endosymbiotic theory in evolution of mitochondria and chloroplast. | 7 |
| | (B) Explain Whittaker's five kingdom classification. | 7 |
| 3. | (A) Give a brief account of phytohormones. | 7 |
| | (B) Explain about plant vascular tissue. | 7 |
| 4. | (A) Define fertilization. Explain double fertilization with diagram. | 7 |
| | (B) Write about characteristics of bryophytes with examples. | 7 |
| 5. | (A) Discuss different types of animal tissue. | 7 |
| | (B) Describe about animal evolution. | 7 |
| 6. | (A) Explain in brief about animal adaptation to land. | 7 |
| | (B) Write about the features of phylum Annelida | 7 |
| 7. | (A) Write about the classification and economic importance of fungi. | 7 |
| | (B) Discuss general characteristics of bacteria. Give examples. | 7 |
| 8. | (A) Write about the structure and chemical composition of virus. | 7 |
| | (B) Discuss economical importance of algae. | 7 |

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9. Answer in short-any eight

1. Who proposed cell theory?

2. Define cell differentiation.

3. Name the sugars present in DNA and RNA.

4. What is Darwin's theory?

5. Why is water molecule considered as polar?

6. Write two features of collenchyma.

7. What is endosperm?

8. What is chlorosis?

9. Distinguish between gymnosperms and angiosperms.

10. Give examples of organisms exhibiting radial symmetry.

11. What is angioamy?

12. Name the organs that are unique to molluscs.

13. Name the phylum in which 80% of animals are included.

14. Write the characters of cnidaria. Give example.

15. What is bacteriophage?

16. What is prion?

17. What is absent in viroid?

18. Write difference between lytic and lysogenic cycle.

19. Name two protozoan pathogens.

20. What is hyphae?