PG Even Semester Exam, 2024

Life Science & Bioinformatics

4th Semester

COURSE NO. LS-653 (Z)

[Applied Biology]

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions,

1. What is immunocytochemistry? Write a brief account on the working principle and applications of different types of ELISA with suitable diagram. 2+12=14

Or

2. Write short notes on the following: 2x7=14
   a. Monoclonal antibodies
   b. Chimeric phage display

3. Describe in detail about the concept of biosensors and their applications. 9+5=14

Or

4. What is phytomerediation? Explain the various types of phytoremediation with examples. 2+12=14

5. What is wildlife? Describe the values associated with conservation of wildlife and biodiversity. What are the differences between ecological and economic values? 4+6+4=14

Or

6. Write notes on following: 7x2=14
   a. Important provisions of wildlife (Protection) Act, 1972 for conservation.
   b. Inbreeding depression in wild animals.

7. Describe the various favoured habits of parasites in vertebrate host with suitable examples. 14

Or

8. Write notes on the following: 7x2=14
   a. Host-parasite interactions with reference to immunity.
   b. Prophylactic measures for the control of parasite infections.

9. Write the life cycle, pathogenesis and control of Entamoeba histolytica. 6+4+4=14

Or

10. Write the life sycle, pathogenesis and control of Echinococeus granulosus. 6+4+4=14

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2024/SEM/EVEN/09/26/LISB-653(Z)/179
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