

October 2025
B.A./B.Sc.
Third Semester
MULTI-DISCIPLINARY COURSE – 3
ZOOLOGY
Course Code: ZOO 3.11
(Fundamentals of Life Sciences)

Total Mark: 50
Time: 2 hours

Pass Mark: 20

I. Answer three questions, taking one from each unit.

UNIT-I

1. Describe in detail the five-kingdom classification of life form with examples. 12
2. Explain in detail the characteristics of living organisms. Add a note on binomial system of naming species. 8+4=12

UNIT-II

3. With a neat diagram, explain the differences between prokaryotic and eukaryotic cells. 2+10=12
4. Explain Mendel's three laws of inheritance with suitable examples. 4+4+4=12

UNIT-III

5. What are the different levels of biodiversity? Explain the biotic and abiotic components of an ecosystem. 6+6=12
6. (a) What is wildlife management? Name some of the international bodies in the management of wildlife conservation. 1+5=6
(b) Discuss the similarities and differences between national parks, wildlife sanctuaries, and biosphere reserves. 6

II. Write notes on any two of the following questions. 7×2=14

7. Hierarchical classification system of living organisms

8. Sex determination in humans
 9. Economic importance of microbes
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