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## CURRICULUM SCHEME FOR B.Sc. PART-WISE PASS COURSES IN ZOOLOGY

### B.Sc. Part-1

Paper No.	Title	Marks
Paper A	Principles in Animal Life	35
Paper B	Invertebrates Diversity: Classification, Phylogeny and Organization	35
	<b>Grand Total</b>	<b>70</b>

### B.Sc. Part-11

Paper No.	Title	Marks
Paper C	Chordates Diversity: Classification, Phylogeny and Organization	35
Paper D	Animal Form and Function: A comparative Perspective	35
	<b>Sub-total Theory</b>	<b>70</b>
Practical 1	Animal Life Lab	15
Practical 2	Animal Diversity (Invertebrate) Lab	15
Practical 3	Animal Diversity (Chordate) Lab	15
Practical 4	Animal Form and Function Lab	15
	<b>Sub-total Practicals</b>	<b>60</b>
	<b>Grand Total</b>	<b>130</b>

## COURSE CONTENTS FOR B.Sc.PART-1 ZOOLOGY

### (Syllabi and Courses of Reading)

#### B.Sc. Part-1 (Outlines of Tests)

Paper No.	Title	Marks
Paper A	Principles in Animal Life	35
Paper B	Invertebrates Diversity: Classification, Phylogeny and Organization	35
	<b>Grand Total</b>	<b>70</b>

#### PAPER A: PRINCIPLES IN ANIMAL LIFE

##### Aims and Objectives

1. The course aims to impart knowledge and understanding of:
2. The concept and status of Zoology in life sciences.
3. The common processes of life through its chemistry, biochemical and molecular processes.
4. The structure and function of cell organelles and how common animal cell diversified in various tissues, organs and organ systems.
5. Biochemical mechanisms eventually generating energy for animal work.
6. Animals and their relationship with their environment. Cell division and its significance in cell cycle.
7. Concepts and mechanisms of inheritance pattern, chromosome and gene linkage and molecular basis of genetics.
8. Animal behavior and communication.
9. Theories of evolution, gene flow and mechanism of evolution with reference to animals and diversity.

