

**DIRECTORATE OF SCHOOL EDUCATION
GOVERNMENT OF TAMILNADU**

**XII STANDARD BIOLOGY
(BIO - ZOOLOGY)**

**QUESTION PAPER DESIGN
BLUE PRINT AND MODEL QUESTION PAPER**

XII STANDARD QUESTION PAPER DESIGN - BIO-ZOOLOGY

Subject : Zoology

Time : 3 Hrs. (Bio-Botany Part 11/2 Hrs.

Maximum marks 150 (Bio-Botany 75 and Bio-Zoology 75) and Bio-Zoology Part 11/2 Hrs)

1. Weightage to learning outcome

S.No.	Categories	Mark	Percent
1.	Knowledge	41	35
2.	Understanding	38	33
3.	Application	33	28
4.	Skill	05	04
	Total	117	100

- Note :**
1. Total mark in 113 inclusive of choice
 2. While preparing question paper there may be variation in weightage of categories up to 5 percent.

2. Weightage to various types of questions

Sl. No.	Type of questions	Mark for each question	Total number of questions	Number of questions to be answered	Total marks
1.	Section A (MCQ)	1	16	16	$16 \times 1 = 16$
2.	Section B (VSA)	3	12	08	$08 \times 3 = 24$
3.	Section C (SA)	5	05	03	$03 \times 5 = 15$
4.	Section D (LA)	10	04	02	$2 \times 10 = 20$
		Total	37	29	75

MCQ - multiple choice question, VSA - very short answer, SA - short answer and LA - long answer.

- Note :**
1. While preparing multiple choice questions, the question paper setter should not give options like '**none of the above**' and '**both A and B**'
 2. The options to be given are selected only from the text contents. Avoid unfamiliar, irrelevant and non - textual matter.
 3. There should not be any ambiguous options and there must be only one appropriate answer among the four alternatives.
 4. Questions are to be framed in such a manner that the candidates should write the VSA within 2 minutes, SA within 5 to 6 minutes and LA within 15 to 16 minutes.

3. Weightage to units

Sl. No.	Units	Marks				Total Marks
		MCQ	VSA	SA	LA	
1.	Human Physiology	4	6	5	20	35
2.	Microbiology	3	3	5	-	11
3.	Immunology	1	6	5	-	12
4.	Modern Genetics	2	9	5	-	16
5.	Environmental Science	2	3	-	10	15
6.	Applied Biology	3	6	-	10	19
7.	Theories of Evolution	1	3	5	-	9

4. Level of questions

S.No.	Level of questions	Percent
1.	Easy type	50
2.	Average level	40
3.	Difficult level	10

Note :

The level of difficulty varies from individual to individual. The question paper should be a balanced one on the basis of general expectations from the group as a whole. The question paper setter is strictly instructed to follow this design of question and there should not be any deviation.

BLUE PRINT

XII STD - BIO-ZOOLOGY EXAMINATIONS (Govt. of Tamil Nadu) (Revised Syllabus 2005 - 06)

TOPICS	KNOWLEDGE				UNDERSTANDING				APPLICATION				SKILL				TOTAL
	O	VS	S	LA	O	VS	S	LA	O	VS	S	LA	O	VS	S	LA	
1. HUMAN PHYSIOLOGY	1(1)	3(1)	5(1)		2(2)	3(1)		20(2)	1(1)								35
2. MICROBIOLOGY	2(2)				1(1)					3(1)					5(1)		11
3. IMMUNOLOGY	1(1)					3(1)				3(1)	5(1)						12
4. MODERN GENETICS	2(2)	3(1)				3(1)				3(1)	5(1)						16
5. ENVIRONMENTAL SCIENCE	1(1)	3(1)			1(1)							10(1)					15
6. APPLIED BIOLOGY	3(3)	3(1)		10(1)						3(1)							19
7. THEORIES OF EVOLUTION	1(1)	3(1)					5(1)										9
	11	15	5	10	4	9	5	20	1	12	10	10			5		
TOTAL	41				38				33				5				117

Knowledge = 35%	Objective type (O) = 16 (Compulsory)	A. Very tough = 10%
Understanding = 33%	Very short answer (V.S.A) = 8 (Eight out of twelve)	B. Average = 40%
Application = 28%	Short answer (SA) = 3 (3 to be answered out of 5. One is compulsory)	C. Easy = 50%
Skill = 4%	Long answer (LA) = 2 (2 to be answered out of 4)	