

# Table of Specification – Mathematics (Class 12)

Table 1: Types of Questions

Type of Question	Number of Items	Marks
MCQs (Section A)	20	20
RRQs (Section B)	13	65
ERQs (Section C)	4	40
<b>Total</b>	<b>37</b>	<b>125</b>

Table 2: Cognitive Level Distribution (with Question Types)

Cognitive Level	MCQs	RRQs	ERQs	Total Items	Percentage
Knowledge	7	3	2	12	32.6%
Understanding	5	4	1	10	25.7%
Application	8	6	1	15	41.5%
<b>Total</b>	<b>20</b>	<b>13</b>	<b>4</b>	<b>37</b>	<b>100%</b>

Table 3: Difficulty Levels (with Question Types)

Difficulty Level	MCQs	RRQs	ERQs	Total Items	Percentage
Easy	6	4	1	11	30%
Moderate	10	7	2	19	50%
Difficult	4	2	1	7	20%
<b>Total</b>	<b>20</b>	<b>13</b>	<b>4</b>	<b>37</b>	<b>100%</b>

Table 4: Unit-wise Distribution

S. No.	Unit	Weight age	Section A (MCQs)	Section B (RRQs)	Section C (ERQs)
1	Introduction to symbolic package: Maple	0%	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
2	Function and Limits	11%	2 / 2	1 / 5	1 / 5
3	Differentiation	11%	2 / 2	1 / 5	1 / 5
4	Higher Order Derivatives & Applications	4%	1 / 1	1 / 5	–
5	Differentiation of Vector Functions	4%	1 / 1	1 / 5	–
6	Integration	18%	4 / 4	2 / 10	1 / 5
7	Plane Analytic Geometry – Straight Line	13%	2 / 2	2 / 10	1 / 5
8	Conics I	5%	2 / 1	1 / 5	1 / 5
9	Conics II	12%	2 / 2	2 / 10	1 / 5
10	Differential Equations	8%	2 / 2	1 / 5	–
11	Partial Differentiation	4%	1 / 1	–	1 / 5
12	Introduction to Numerical Methods	10%	2 / 2	1 / 5	1 / 5
<b>TOTAL</b>		<b>100%</b>	<b>20 / 20</b>	<b>13 / 65</b>	<b>4 / 40</b>