

**BOARD OF INTERMEDIATE EDUCATION, VIJAYAWADA**

2nd YEAR - Mathematics - IIB

**WEIGHTAGE TO CONTENT OF UNITS**

Q.NO.	TOPICS - 2 Marks	Exercises in which the question be given
1	Circles	Ex-1(a)&1(b), 1(c)&1(d), 1(a)&1(c), 1(b)&1(d)
2	Circles	Ex-1(b)&1(c), 1(d)&1(a), 1(b)&1(d)
3	System of Circles	Ex-2(a) or 2(b)
4	Parabola	Ex - 3(a) or [3(b)] <i>Deleted</i>
5	Hyperbola	Ex - 5(a)
6	Integration	Ex - 6(a)&6(b), 6(c)&6(d), 6(e)&6(g)
7	Integration	Ex - 6(b) & 6(c), 6(d) & 6(e), 6(a) & 6(c)
8	Definite Integrals	Ex - 7(b), Ex-7(c)
9	Definite Integrals	Ex - 7(b), Ex-7(c)
10	Differential Equl	Ex - 8(a) or 8(b)
Q.NO.	TOPICS - 4 Marks	Exercises in which the question be given
11	Circles	Ex - 1(a) or 1(b) or 1(c) or 1(d) or [1(e)] <i>Deleted</i>
12	System of Circles	Ex - 2(a) or 2(b)
13	Ellipse	Ex - 4(a) & [4(b)] <i>Deleted</i>
14	Ellipse	Ex - 4(a) & [4(b)] <i>Deleted</i>
15	Hyperbola	Ex - 5(a)
16	Definit. Integrals	Ex - 7(b) or 7(c) <i>Deleted</i>
17	Differential Equl	Ex - 8(b) or 8(c), [8(d)] or 8(e) <i>Deleted</i>
Q.NO.	TOPICS - 7 Marks	Exercises in which the question be given
18	Circles	Ex - 1(a), 1(c), 1(a), [1(e)] <i>Deleted</i>
19	Circles	Ex - 1(a), [e] <i>Deleted</i>
20	Parabola	Ex - 3(a) or [3(b)] <i>Deleted</i>
21	Integration	Ex - 6(d), 6(f) EXCEPT $\int (Px+Q) \sqrt{ax^2+bx+c} dx$ mode
22	Integration	Ex - 6(d), 6(f) $\int \sqrt{ax^2+bx+c} dx$ mode
23	Definita Integrals	Ex - 7(b) or 7(c)
24	Differential Equations	[Deleted] Ex - 7(d) or 8(e) EXCEPT $\frac{dx}{dy} + Px = Q$ mode problem

## Topics deleted under

### 30% reduction of Syllabus due to COVID-19

1.	Circles	1.5 -> Relative positions of two circles including Ex 1(e) and solved problems,	60 - 70
3.	Parabola	3.2 -> Tangents & Normal including Ex 3(b)	117 - 128
4.	Ellipse	4.2 -> Equations of tangents & Normal including Ex 4(b)	148 - 158
6.	Integration Definite Integrals	<p>Evaluation of <math>\int_a^b f(x) dx</math> as the limit of the sum and limit of            7.1 and            7.2 -&gt; Definite integral as the limit of the sum and limit of            the sum and related problems in exercise            7(a) and 7(b) and Examples            7.5 -&gt; Application of Definite integrals to areas including ex            7(d)</p> <p>8.17 -&gt; Formation of Differential Equations and problems            related to it</p> <p>8.2(C): Non-Homogeneous Differential Equations including            Ex 8(d)            Solution of linear differential Equations of the type <math>\frac{dy}{dx} + Px = Q</math>            Where P and Q</p>	$\int \sqrt{a+x^2+b^2+x^4} dx$ And related problems <del>Definite Integrals</del> 262 - 268 283 - 286 297 - 308 317
8.	Differential Equations		341 - 345