

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

Linear differential equations.

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

$\int \sqrt{ax^2+bx+c} dx$ and related problems

6.	Integration Definite Integrals	Evaluation of $\int \sqrt{ax^2+bx+c} dx$ 7.1 and 7.2 -> 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 7.6 -> Application of Definite integrals to areas including ex 7(d)	262 - 268 283 - 285 297 - 308 317
8.	Differential Equations	8.17 -> Formation of Differential Equations and problems related to it 8.2(C): Non - Homogeneous Differential Equations including Ex 8(d) Solution of linear differential Equations of the type $\frac{dy}{dx} + Px = Q$, Where P and Q	341 - 345