

N.K.E.S.Jr COLLEGE WADALA

YEAR 2021-22

Complete synopsis of XII (science)

MATHEMATICS

I SEMESTER Exam

Nitina shukla

	SCIENCE STREAM MATHEMATICS	ANNUAL PLAN	COMPLETION REPORT
math1	Name of the Chapter	Period / month of completion	Status
1	Mathematical Logic	June	COMPLETED
2	Matrices	June	COMPLETED
3	Trigonometric Functions	August	COMPLETED
4	Pair of Straight Lines	July	COMPLETED
5	Vectors	October	INCOMPLETED
6	Line and Plane	November	INCOMPLETED
7	Linear Programming	September	COMPLETED

Math2			
1	Differentiation	July and August	COMPLETED
2	Applications of Derivatives	August	COMPLETED
3	Indefinite Integration	September	COMPLETED
4	Definite Integration	September	COMPLETED
5	Application of Definite Integration	December	COMPLETED
6	Differential Equations	December	INCOMPLETED
7	Probability Distributions	December	INCOMPLETED
8	Binomial Distribution	October	INCOMPLETED

PORTION FOR THE EXAM

MATHEMATICS PAPER I



Mathematical Logic

Matrices

**Trigonometric
Functions**

Pair of Straight Lines

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MATHEMATICS PAPER II

Differentiation

**Applications of
Derivatives**

Indefinite Integration

Question paper format for Terminal Exam.
Total marks: 50

Time
2 Yrs

Section A.

Q.1 Select and write the most appropriate ans. from the given alternatives for each sub-question
(i) to (v) MCQ's. 2 Marks each [10].

Q.2. Ans the following Qns.
(i) to (iv) VSA 1 Mark each [04].

Section B.

Attempt any 8 of the following
Q.3 to Q(13). SA-I 2 Marks each [16].

Section C.

Attempt any 4 of the following
Q(14) to Q(19). SA II 3 Marks each [12].

Section D.

Attempt any 2 of the following.
Q.20 - Q(23). LA 4M. each. [08].

GENERALLY FINAL BOARD PAPER OF MATHEMATICS COMES FOT 80 MARKS

BUT SEMESTER IS OF 50 MARKS

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- **For the benefit of students and considering the current situation a question bank is supplied to students in the form of chapter wise assignment form.**
- **This is shared in class whatsapp group and in teachmint class too.**
- **The students are provided with exercise no and Question number as they can refer books for solution .**
- **The answer key will be released before the exam begins /shortly .**
- **This question bank will collected by the teacher and will be considered for internal assignments/evaluation , if required in future .**

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Important problems: Chapterwise (8c)

Part-1:

1) Mathematical logic:

Ex: 1-1 Q1) iv, vii, viii, ix, xiii, xiv.

Q2) ii, iii, v, vii

Q3) i, ii, iv, vii

Q4) i, iii, v, vi, vii, viii

Q5) ii, iii, v,

Ex: 1-2 Q1) i, iv, vi, viii

Q2) ii, iv, viii, ix,

Q3) i, iii, vii, ix, x

Ex 1-3 Q1) i, ii, iv, v

~~Q2)~~ Q3) i, iv, v, vii, viii, ix.

Q4) i, iii, iv.

MATHEMATICS

Part I

**Mathematical
Logic**

Matrices

② Matrices (Ex 2.1) 3, 5, 8 (page no 39)

(Ex 2.2) 1 (ii), 2 (ii) 3 (i), 4, 5 (i), (iii)

6 (ii), (iv) (page 51)

(Ex 2.3) 1 (i), ~~2~~ (~~ii~~), 4,

Pair of Straight Lines

④ Pair of straight lines: Ex 4.1, 1) i, v

2) i, ii, iv, 3) i, ii, 4) ii, iii, 8,

Ex 4.2 1, 2, 4) i, iii, 6,

April

S	M	T	W	T	F	S	S	M	T	W	T
						1	2	3	4	5	6

Trigonometric function

③ Trigonometric functions:

Ex 3.1 1 (ii), 2 (iii), 3 (i), 6 (iii)
7 (iii), 8 (ii)

Ex 3.2 1) (i), iv 2) i, iii, 4, 7, 8.

Ex 3.3 1 (i), 2) i 3) i, iii, v

Part 2:

Differenzieren:

(Ex 1.1) 1) i, v, 2) iv, x, 3) xii, xvi

(Ex 1.2) 1) i 3) i 6) i, v, 7) iv, vii, x

8) i, ii, 9) iii, vi, ix, 10) i, iv, vii, ix.

(Ex 1.3) 1) vi, vii, 2) iii, iv, 3) i, ii, iii, iv

4) ii, iv, vii 5) ii, iv, vi, vii, ix.

(Ex 1.4) 1) i, v, 2) ii, v, 3) i, iii, vi,

4) i, v, vii,

(Ex 1.5) 2) ii, iii, 3) ii, vi, ix, x.

MATHEMATICS
Part II
Differentiation

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Indefinite Integration:

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Wednesday

Ex 3.1 I) i, II) i, vi, x

III) viii, x, IV)

Ex 3.2(A) I) 1, 2, 7, 12, 17, 25

II) 1, 3, 9

Ex: 3.2(B) I) 1, 5, 8, 10, 17, 18, 19

II) 12, 5, 7,

Ex: 3.2(C) I) 1, 4, 7

Ex 3.3 I) 1, 3, 7, 13, 16, 21

III) 4, 7, 9

Ex: 3.4 1, 3, 19, 21, 23

Indefinite Integration

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Applications of Derivatives

Application of derivatives:

Ex: 2.1 1) i, 5, 8, 10, 12, 16.

Ex 2.4 1) i, 2) ii, 3) ii 5 9) iii, 10

12, 15, 17, 20,