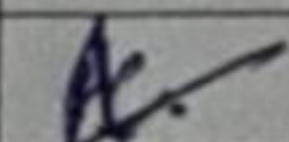
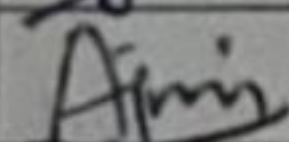
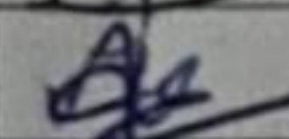
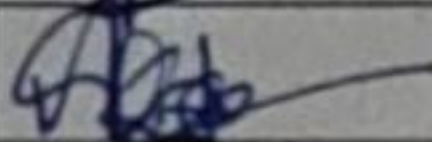
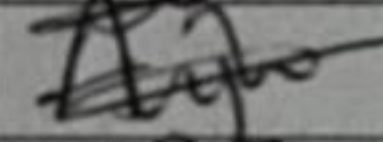
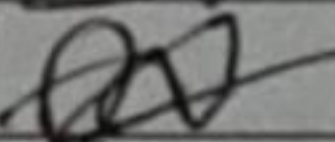
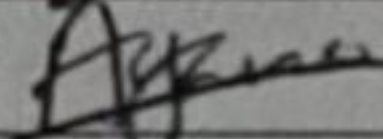
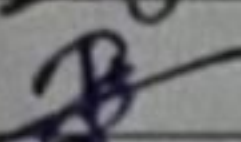
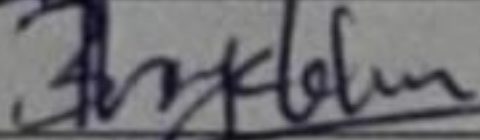
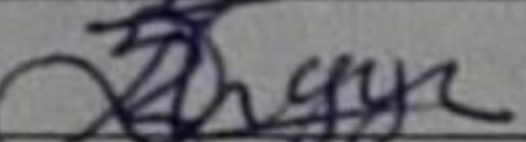
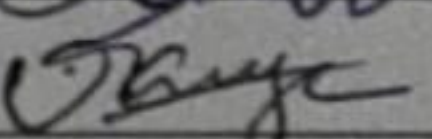
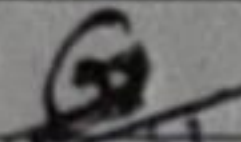
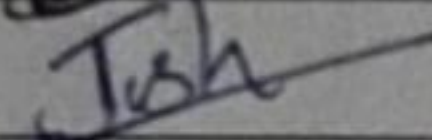
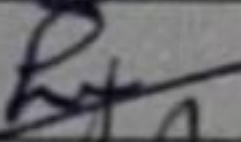
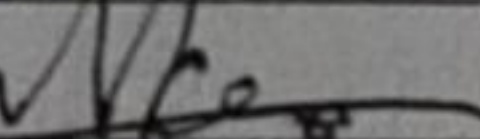
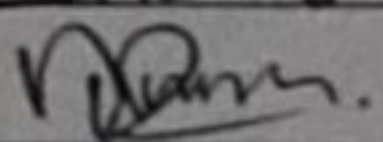
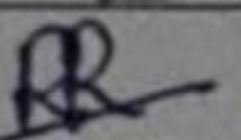
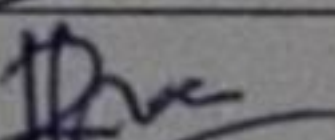
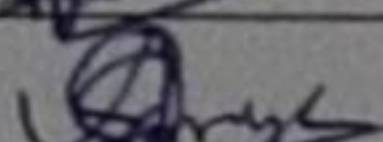
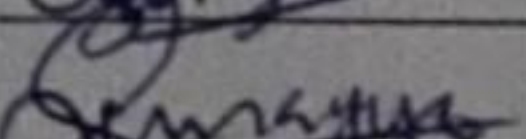
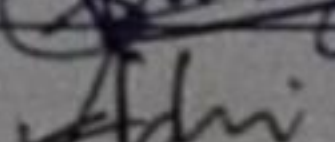
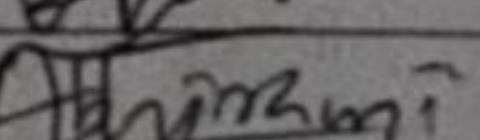
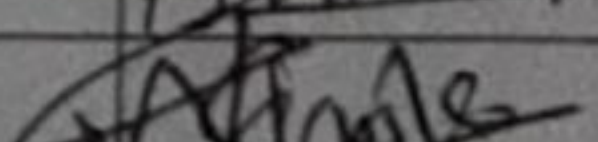
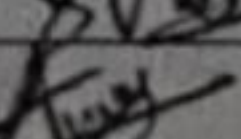
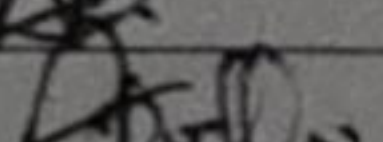
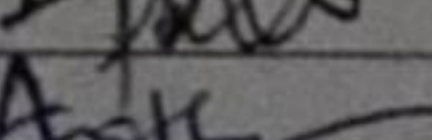
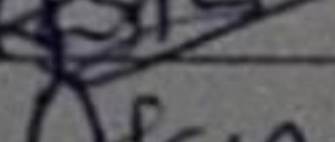
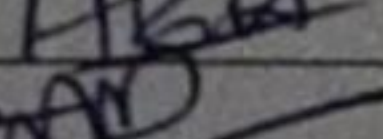
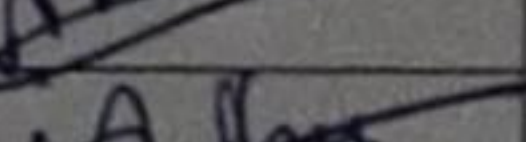
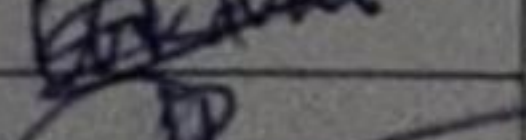


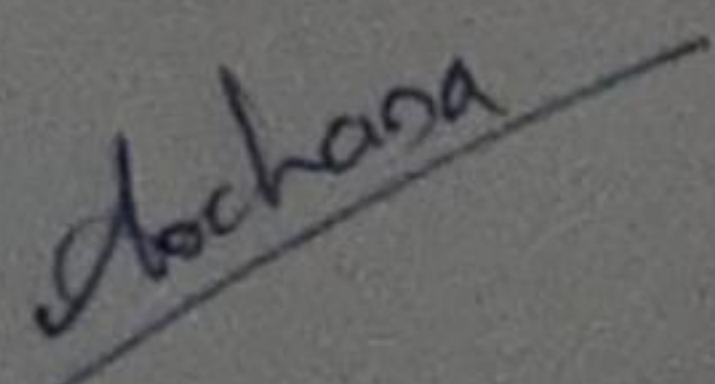
MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM

STUDENT ENROLMENT LIST

Name of Department : Department of Mathematics

Name of Course : Basic Mathematics in Competitive Examinations

Sl No	Name of Student	Signature
1	Adithya Chandran S	
2	Ajmi S	
3	Akhil A	
4	Akshay Prasad	
5	Akshay Prasad S	
6	Amrutha Suresh	
7	Anju G S	
8	Archana P	
9	Arya C V	
10	Ayana K A	
11	Betsy Shibu	
12	Bhagyalekshmi B R	
13	Bhagya S	
14	Ganga Muraleedharan S	
15	Geethu P	
16	Jishnu S Parimal	
17	Lekshmi V	
18	Meera J R	
19	Muneera N	
20	Roshni R	
21	Rukey Raj	
22	Soorya A R	
23	Sumayya S	
24	Aardra Dayalal	
25	Abhijith.A.M	
26	Abhirami.A.S	
27	Ajay Ashok	
28	Ajith A Pillai	
29	Akarsh Mahadevan	
30	Alan Raj	
31	Anandhu M	
32	Anandu A	
33	Aradhana. R. G	



34	Arathy LR	Arathy
35	Aravind S B	Aravind
36	Arya A	Arya
37	Arya A S Nair	Arya A S Nair
38	Aswathy K Anil	Aswathy
39	Aswathy S	Aswathy
40	Devika Jayakumar	Devika
41	Abhirami Nair	Abhirami
42	Aiswarya Ashok	Aiswarya Ashok
43	Akhil C R	Akhil
44	Akhil Sekhar cv	Akhil
45	Anand K R	Anand
46	Anjali R	Anjali
47	Athira S Kumar	Athira
48	Gayathri G S	Gayathri
49	Giri Sankar S	Giri Sankar
50	Haripriya L	Haripriya
51	Karthika K	Karthika
52	Kavya Mohan	Kavya
53	Nandagopal S	Nandagopal
54	Silpa S	Silpa
55	Sneha shaji	Sneha
56	Sreelekshmi.S	Sreelekshmi
57	Sruthy D M	Sruthy
58	Vandana A	Vandana
59	Vipin Kumar V U	Vipin Kumar
60	Ahalya D S	Ahalya
61	Aiswarya Lekshmi M S	Aiswarya
62	Anandu Ajith	Anandu
63	Anantha Raj. A	Anantha
64	Anju A	Anju
65	Anugraha Sakalesh	Anugraha
66	Aparna P	Aparna
67	Arathy S J	Arathy
68	Arjun T	Arjun
69	Arya S	Arya
70	Aswathy C	Aswathy
71	Aswin B	Aswin
72	Athira R	Athira
73	Athira S	Athira
74	Athulya M S	Athulya

Abhaya

75	Drisya S	SP
76	Fathima A S	SP
77	Kavya Lal	SP
78	Krishna priya R	SP
79	Krishna Veni B	SP
80	Lakshmipriya	SP

~~Aschasa~~

Dr. Aschasa V. P., Assistant Professor
Department of Mathematics

MMNSS COLLEGE KOTTIYAM
DEPARTMENT OF MATHEMATICS - 2018 - 19
ADD ON COURSE – SYLLABUS
BASIC MATHEMATICS IN COMPETITIVE EXAMINATIONS (30 hrs)

Module 1 (10hrs)

Number systems - Divisibility and prime numbers

LCM and HCF -- Fractions and Decimals

Exponents and powers

Module 2 (10 hrs)

Equations and inequalities

Quadratic Equations and solutions -- Polynomials

Linear algebra and Matrices

Module 3 (10 hrs)

Points lines and planes ----Angles and measurements

Circles and conics

Trigonometry

Objectives

- Strengthen foundational mathematical skills
- Prepare students for higher-level mathematics
- Enhance problem-solving abilities
- Improve computational skills
- Assist students in cracking entrance exams that require mathematical aptitude.



Arch
Dr Archana V P
Assistant Prof
Dept of Mathematics

MMNSS COLLEGE KOTTIYAM
DEPARTMENT OF MATHEMATICS

ADD ON COURSE - 2018-19

BASIC MATHEMATICS IN COMPETITIVE EXAMINATIONS

COURSE SCHEDULE

Date	Day	Time	Topic
04/10/2018	Thursday	3.30-4.30 pm	Introduction to Number System and basic operations
06/10/2018	Saturday	9.30-12.30 pm	Divisibility
09/10/2018	Tuesday	3.30-4.30 pm	Prime numbers
11/10/2018	Thursday	3.30-4.30 pm	LCM
15/10/2018	Monday	3.30-4.30 pm	HCF
22/10/2018	Monday	3.30-4.30 pm	Fractions and Decimals
26/10/2018	Friday	3.30-4.30 pm	Exponents and Powers
27/10/2018	Saturday	9.30-3.30 pm	Equation and Inequalities
30/10/2018	Tuesday	3.30-4.30 pm	Quadratic Equation and Solutions
07/11/2018	Wednesday	3.30-4.30 pm	Quadratic Equation and Solutions -Polynomials
09/11/2018	Thursday	3.30-4.30 pm	Linear algebra and Matrices
15/11/2018	Thursday	3.30-4.30 pm	Linear algebra and Matrices
17/11/2018	Saturday	9.30-12.30 pm	Points Lines and Planes
22/11/2018	Thursday	3.30-4.30 pm	Angles and Measurements
26/11/2018	Monday	3.30-4.30 pm	Circles
29/11/2018	Thursday	3.30-4.30 pm	Conics
03/12/2018	Monday	3.30-4.30 pm	Conics
15/12/2018	Saturday	9.30-3.30 pm	Trigonometry

Arch

*Dr. Archana . V . P.
Assistant Professor
Department of Mathematics*

M.N.S.S. COLLEGE KOTTIYAM
DEPARTMENT OF MATHEMATICS
EXAMINATION -ADD ON COURSE – MATHEMATICS
BASIC MATHEMATICS IN COMPETITIVE EXAMINATIONS

Time : 2 hours

Total marks : 70

Section A: Multiple Choice Questions (10 marks)

1. a and b are prime numbers, what is the greatest common divisor of a^2 and b^2 ?
2. What is the value of x in the equation $2x + 5 = 11$?
3. If a triangle has sides 3, 4, and 5, what is its area?
4. What is the probability of getting a head in a coin toss?
5. What is the value of the expression $2^3 \times 3^2$?
6. If $x + 2 = 5$, what is the value of x?
7. What is the value of x in the equation $2x + 5 = 11$?
8. If $a = 2$ and $b = 3$, what is the value of $a^2 + b^2$?
9. What is the slope of the line passing through the points (2,3) and (4,5)?
10. Find the fifth root of 243

Section B: Short Answer Questions (Answer any 6 each carries 5 marks)

11. Prove that 2 is a prime number.
12. Find the equation of the line passing through the points (1,2) and (3,4).
13. What is the formula for the area of a circle?
14. Solve the equation $x^2 + 4x - 5 = 0$.
15. Find the probability distribution of a fair six-sided die.
16. Simplify the expression: $2(3x + 5) - 4(x - 2)$

17. Find the area of a triangle with vertices $(0,0)$, $(3,0)$, and $(2,5)$
18. Solve the equation: $x^2 + 4x - 5 = 0$
19. Find the perimeter of a rectangle with length 6 cm and breadth 4 cm
20. If a car travels 250 km in 5 hours, what is its average speed?

Section C: Long Answer Questions (Answer any 3 each carries 10 marks)

21. Prove that the sum of any two even numbers is even.
22. Find the derivative of the function $f(x) = 3x^2 + 2x - 5$.
23. Solve the system of equations:
$$\begin{aligned} x + y &= 4 \\ 2x - 2y &= 2 \end{aligned}$$
24. Find the area of a triangle with vertices $(0,0)$, $(3,0)$, and $(2,5)$.
25. Find the equation of the line passing through the points $(1,2)$ and $(3,4)$

Archana

Dr. Archana V.P.
Assistant Professor
Department of Mathematics

MANNAM MEMORIAL NSS COLLEGE, KOTTIYAM

END COURSE EVALUATION

Name of Department : Department of Mathematics

Name of Course : Basic Mathematics in Competitive Examinations

Duration of Exam : 2 hours

Total Marks : 70

Sl No	Name of Student	Marks Obtained
1	Adithya Chandran S	64
2	Ajmi S	63
3	Akhil A	68
4	Akshay Prasad	54
5	Akshay Prasad S	52
6	Amrutha Suresh	55
7	Anju G S	60
8	Archana P	63
9	Arya C V	69
10	Ayana K A	70
11	Betsy Shibu	62
12	Bhagyalekshmi B R	64
13	Bhagya S	61
14	Ganga Muraleedharan S	67
15	Geethu P	57
16	Jishnu S Parimal	58
17	Lekshmi V	66
18	Meera J R	50
19	Muneera N	54
20	Roshni R	53
21	Rukey Raj	62
22	Soorya A R	65

Archana

23	Sumayya S	68
24	Aardra Dayalal	60
25	Abhijith.A.M	53
26	Abhirami.A.S	57
27	Ajay Ashok	59
28	Ajith A Pillai	60
29	Akarsh Mahadevan	57
30	Alan Raj	64
31	Anandhu M	68
32	Anandu A	69
33	Aradhana. R. G	63
34	Arathy LR	67
35	Aravind S B	66
36	Arya A	59
37	Arya A S Nair	52
38	Aswathy K Anil	64
39	Aswathy S	55
40	Devika Jayakumar	58
41	Abhirami Nair	56
42	Aiswarya Ashok	65
43	Akhil C R	59
44	Akhil Sekhar cv	66
45	Anand K R	68
46	Anjali R	70
47	Athira S Kumar	57
48	Gayathri G S	58
49	Giri Sankar S	56
50	Haripriya L	65
51	Karthika K	68
52	Kavya Mohan	70
53	Nandagopal S	57
54	Silpa S	60

Archana

55	Sneha shaji	62
56	Sreelekshmi.S	63
57	Sruthy D M	58
58	Vandana A	68
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64	Anju A	69
65	Anugraha Sakalesh	68
66	Aparna P	70
67	Arathy S J	70
68	Arjun T	69
69	Arya S	68
70	Aswathy C	58
71	Aswin B	59
72	Athira R	62
73	Athira S	64
74	Athulya M S	65
75	Drisya S	69
76	Fathima A S	70
77	Kavya Lal	67
78	Krishna priya R	66
79	Krishna Veni B	70
80	Lakshmipriya	70

Number of students enrolled : 80

Number of students completed : 80

Aachana
 Dr. Aachana V.P
 Assistance Professor
 Department of Mathematics

MMNSS COLLEGE KOTTIYAM
DEPARTMENT OF MATHEMATICS

ADD ON COURSE - 2018-19

BASIC MATHEMATICS IN COMPETITIVE EXAMINATIONS

REPORT

Department of Mathematics offers a certificate course on “**BASIC MATHEMATICS IN COMPETITIVE EXAMINATIONS**” for the third year and second year degree students of the other department. The classes were of 30 hour duration and was conducted after regular class hours and Saturdays. The programme aims to prepare students for higher level mathematics and to enhance their problem solving and computational skill. Also the course assist students in cracking entrance exams that require mathematical aptitude. Students much gratified by this course.

FEEDBACK ANALYSIS

Students found the course content to be relevant and useful. 60% of students found the course to be "just right" in terms of difficulty, while 20% found it "too easy" and 20% found it "too difficult". Students were generally satisfied with the assessment methods

Overall, students were satisfied with the Basic Mathematics course, but there are areas for improvement. By addressing these areas, we can enhance the learning experience and better support student success.



C. V. P.
Principal
N.M.N.S.S. COLLEGE
KOTTIYAM

Dr. Acharya
Dr. Acharya, V. P.
Assistant Professor
Department of Mathematics.