Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

INDEX

Sr. No.	Year	Particulars
1		Report
2		Structure and Syllabus of the Course
3		Time Table
4	2020-21	Roll Call
5		Attendance
6		Examination Notification/Question- Paper
7		Mark-Sheet

D. P. Bhosale College, Koregaon

Department of Mathematics

Skill Based Course in

Basic Mathematics for Competitive Exams

Report

As the department always strives for the best, taking into consideration the need of the computer and job opportunity Department of Mathematics ran the Skill based course entitled **'Basic Mathematics for Competitive Exams'** in academic year 2020-21.

The department has designed this course. It has its own Board of Studies (BoS). All the faculty members took active participation in running the said course. The course started from December 2020 and completed at March 2021. The 07 students enrolled to this course. The examination was conducted on 15th March, 2021.

The present faculty of the Department teaches this course as well. In addition to it the exam is taken and the certificates are issued to the students. Students are benefited through this course.

Sr. No.	Year	No. of Beneficiary Students
1	2020-21	07

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

PRINCIPAL,
D. P. Bhosale College,
Koregaon.

Department of Mathematics

Skill Based Course in

Basic Mathematics for Competitive Exams

Course Particulars

1. Eligibility   : XII std. pass.

2. Duration of Course   : 3 Months.

3. No. of Students   : 15

4. Examination   : Written Exam (100 marks)

5. Faculty   : 1. Mrs. Salunkhe A. S. (Co-ordinator)

      2. Mr. Shete R. K.

6. Coordinator   : Head, Dept. of Mathematics

      D.P. Bhosale College, Koregaon.

7. Board of Studies   : 1. Mrs.Salunkhe A.S.   (Co-ordinator)

      2. Dr. Yadav J.D.   (S.G.M.College, Karad)

      3. Mr. Patil S .A.   (S.G.M.College, Karad)

8. Experts Name   : 1. Dr.Yadav J.D. (S.G.M. College, Karad)

      2. Mr. Patil S.A.   (S.G.M. College, Karad)

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

PRINCIPAL,
D. P. Bhosale College,
Koregaon.

Objectives and Outcome of the course

Objectives of the course:

1) To enable the learners to explore the knowledge of basic mathematics used for competitive exams.
2) To make learners strong in numerical and mathematical reasoning.
3) To enable learners to recognize and understand the mathematical problems and solving by simple techniques of arithmetic calculations.
4) To train learners to use the idea of mathematics in calculations and make those calculations with accuracy and speed.

Outcome of the course:

1) Perform simple arithmetic calculations with speed and accuracy.
2) Enhance the Aptitude paper clearing ability in selection process.
3) Interpret the concepts of mathematical reasoning skill
4) Solve real-life problems requiring interpretation and comparison of various representations of ratios.
5) Self analysis of own skill.
6) The exam develops confidence, which increases students personality in a hardworking manner.
7) Enthusiasm for competitive examination.
8) Face numerical aptitude part of any competitive examination confidently.

Reference Books:

1) Dinesh Khattar, The Pearson Guide to Quantitative Aptitude

2) Kishor Lavate, MPSC Question Bank, Dnyanadeep Academy

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams
Syllabus

Sr. No.	Unit	Lectures
1.	1) Introduction to Number System and properties of elements of Number system- Numbers, BODMAS, HCF & LCM, Divisibility 2) Decimal Fractions and conversion into pure fractions	04
2.	1) Roots, Squares, Indices, sum and difference of squares, Averages, Percentages 2) Profit and Loss, Simple interest, compound interest	04
3.	1) Ratio & Proportions, Partnership, Discounts & commission, Mixtures & allegations 2) Speed, Distance, Time, Pythagoras theorem 3) Work, Rate, Time & Pipes and cisterns, angles , watch	05
4.	1) Algebraic Formulae, Linear equations, Simultaneous equations, Quadratic equations 2) Inequalities and absolute values	03
5.	1) Functions and Graphs- Plotting graphs of basic functions 2) Set theory and Venn diagrams 3) Two-dimensional figures, circles, 4) Three-dimensional figures, coordinate geometry	04
6.	1) Mean, Median, Mode, 2) Standard deviation, Normal distribution	02
7.	1) Matrices and determinants 2) Sequence and series, Binomial theorem 3) Functions, Logarithm	04
8.	1) Permutations and combinations 2) Probability	04

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

PRINCIPAL,
D. P. Bhosale College,
Koregaon.

Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams
Notice

Date: 25/11/2020

All students of B.Sc. III (Mathematics) are here by informed that Department of Mathematics going to organize your skill based course (Basic Mathematics for Competitive Exams) has been scheduled from 1stDecember 2020 to March 2021 , remain present at prescribed time in lecture hall.

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Time Table (Dec.2020 to Feb.2021)

TIME	MON.	TUE.	WED.	THU.	FRI.	SAT.
10.30-11.20 a.m.	S.R.K.	S.A.S.	--	--	--	--
03.30 – 4.30 p.m.	S.R.K.	S.A.S.	--	--	--	--

1. S.A.S. - Mrs. Salunkhe A.S.

2. S.R.K. – Mr. Shete R. K.

Head
Department of Mathematics
D. P. Bhosale College, Koregaon
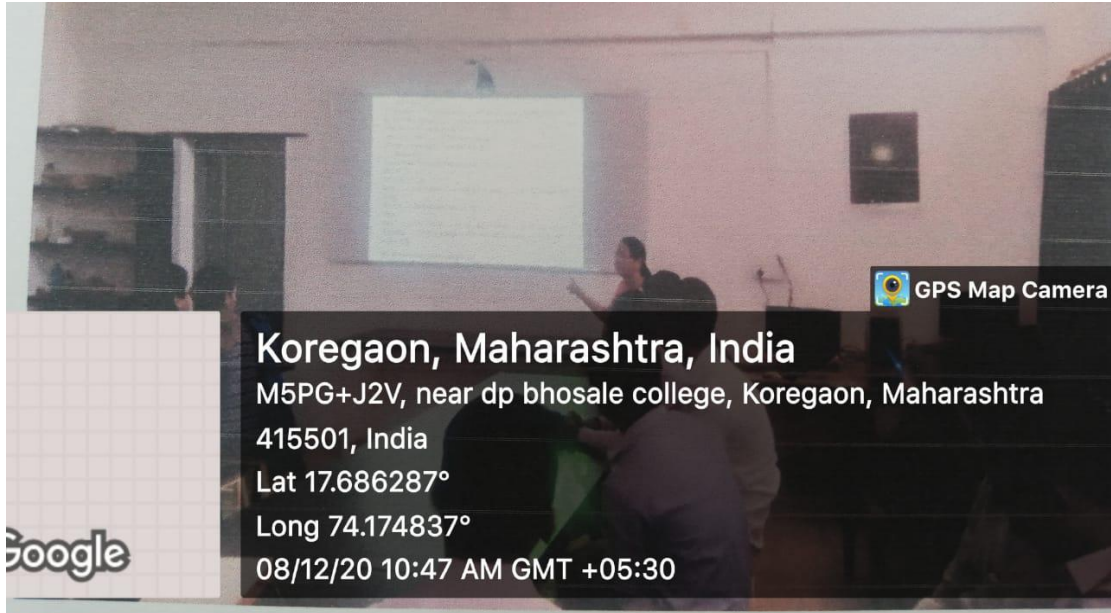
PRINCIPAL,
D. P. Bhosale College,
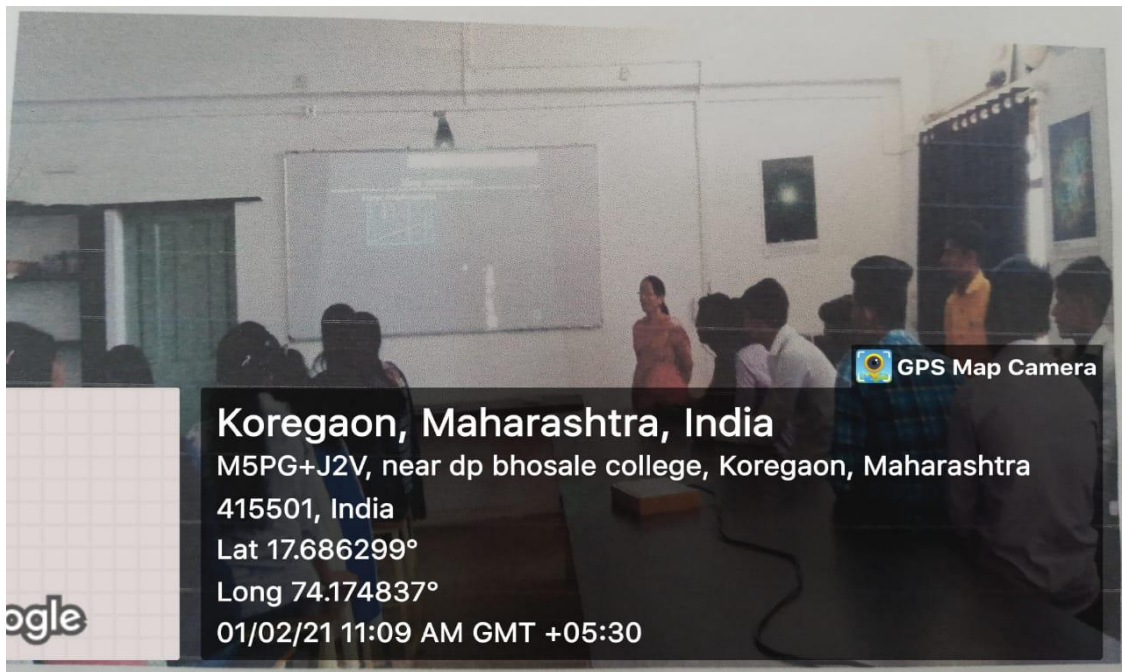Koregaon.

D. P. Bhosale College, Koregaon

Department of Mathematics

Skill Based Course in

Basic Mathematics for Competitive Exams

Mrs. A.S. Salunkhe explained about competitive Exam dated on 08/12/2020

Guidance on Mathematical Reasoning by Mrs. A.S. Salunkhe dated on 01/02/2021

List of the Student

Sr. No.	Name of the Students
1	Bodke Amruta Chandrakant
2	Dhole Dipti Narhari
3	Ghorpade Priyanka Raju
4	Ghorpade Priyanka Vinayak
5	Gaikwad Mrudula Raju
6	More Dipali Tukaram
7	Phadtare Vaishnavi Nitin

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Examination Notice

Students of skill based course in 'Basic Mathematics for Competitive Exams' are hereby informed that their examination will be conducted on 15th march 2021. The time table is as follows:

Course	Date	Time
Basic Mathematics for Competitive Exams	15/03/2021	12:00 to 02:00 pm

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

PRINCIPAL,
D. P. Bhosale College,
Koregaon.

D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Date: 15/03/2021   **Time: 12 to 02 pm**   **Marks- 100**

Instructions: All questions are compulsory and equal marks.

Q. Choose the correct alternative.   **[100]**

1) Amber Chew opened a departmental store at Great India Palace in Noida by investing ₹20 million. After a few months her brother Sheesh Chew joined the business and invested ₹30 million. At the end of the year, the profit was shared in the ratio of 3:2. After how many months did Amber's brother join the business?

   (a) 4 months   (b) 6 months   (c) 7 months   (d) 8 months

2) Two motor cars were sold for ₹9,900 each, gaining 10% on one and losing 10% on the other. The gain or loss per cent in the whole transaction is…

   (a) Neither loss nor gain   (b) 1% profit
   (c) (99/100) % profit   (d) 1% loss

3) A man purchased some eggs at 3 for ₹5 and sold them at 5 for ₹12. Thus, he gained ₹143 in all. The number of eggs he bought is…

   (a)210   (b) 200   (c) 195   (d) 190

4) A, B and C can do a work in 20, 25 and 30 days respectively. They undertook to finish the work together for ₹ 2,220, then the share of A exceeds that of B by…

   (a) ₹120   (b) ₹180   (c) ₹300   (d) ₹600

5) 12 men complete a work in 18 days. Six days after they had started working, 4 men joined them. How many days will all of them take to complete the remaining work?

   (a) 10 days   (b) 12 days   (c) 15 days   (d) 9 days

6) A tin of oil was four-fifths full. When six bottles of oil were taken out and four bottles of oil were poured into it, it was three-fourths full. How many bottles of oil can it contain?

   (a) 20   (b) 10   (c) 30   (d) 40

7) Two filling pipes A and B can fill a tank in 30 hrs and 20 hrs respectively. Pipe B alone is kept open for half the time and both pipes are kept open for the remaining time. In how many hrs, will the tank be completely full?

(a) 25 hrs   (b) 15 hrs   (c) 40 hrs   (d) 28 hrs

8) Ia a, a+2 and a+4 are prime numbers, then the number of possible solution for a is …

     (a) One   (b) Two   (c) Three   (d) Four

9) A pipe can fill a cistern in 6 hrs. Due to a leak in its bottom, it is filled in 7 hrs. When the cistern is full, in how much time will it be emptied by the leak?

     (a) 42 hrs   (b) 45 hrs   (c) 40 hrs   (d) 43 hrs

10) A train running at 7/11 of its own speed reached a place in 22 hrs. How much time could be saved if the train runs at its own speed?

     (a) 8 hrs   (b) 7 hrs   (c) 14 hrs   (d) 16 hrs

11) $348 \div 29 \times 15 + 156 = x^3 + 120$, find value of x.

     (a) 12   (b) 6   (c) 36   (d) 9

12) Ram's salary is increased by 20%. On the increase, the tax rate is 10% higher. Find the percentage of increase in the tax liability?

     (a) 20%   (b)22%   (c) 23%   (d) 24%

13) The greatest number which when subtract from 5434 gives a number exactly divisible by each of 20,28,38 and 35 is …

     (a) 1122   (b) 4714   (c) 5200   (d) 5600

14) HCF and LCM of two numbers are 7 and 140 respectively. If the numbers are between 20 and 45, the sum of numbers is…

     (a) 63   (b) 77   (c) 73   (d) 56

15) When 30% of number is added to another number. The second number increase by its 20%. What is the ratio between the first and second number?

     (a) 3:2   (b) 2:5   (c) 2:3   (d) Data inadequate

16) 0, 4, 18, 48, ?,180

     (a) 58   (b) 68   (c) 84   (d) 100

17) If $\sqrt{x} + \sqrt{49} = 8.2$, then value of x is equal to…

     (a)1.20   (b) 1.40   (c) 1.44   (d) 1.89

18) A man buys a single apple for ₹25. If he were to buy a dozen apples, he would have to pay a total amount of ₹250. What would be the approximate per cent discount he would get on buying a dozen apples?

     (a) 13   (b) 32   (c) 20   (d) 17

19) A train travels a distance of 300 km at a constant speed. If the speed of the train is increased by 5 km an hour, the journey would have taken 2 hrs. less. The original speed of the train was…

     (a) 20 km/hrs   (b) 25 km/hrs   (c) 30 km/hrs   (d) 28 km/hrs

20) If 1 micron = 10000 angstrom, then 100 angstroms is what percent of 10 microns?

    (a) 0.0001%   (b)0.001%   (c) 0.01%   (d) 0.1%

21) A man can row 6 km/hr in still water. If the speed of t current is 2 km/hr, it takes 3 hrs more in upstream than the downstream for the same distance. The distance is…

    (a) 24 km   (b) 30 km   (c) 34 km   (d) 32 km

22) Two fifth of one-third of three-seventh of a number is 15. What is 4000% of the number?

    (a) 136   (b) 140   (c) 72   (d) 105

23) How many numbers are there between 500 and 600 in which 9 occurs only once?

    (a) 19   (b) 18   (c) 20   (d) 21

24) In 4 years, the simple interest on a certain sum of money is 7/25 of the principal. The annual rate of interest is…

    (a) 4%   (b) 5.4%   (c)7%   (d) 9%

25) Milk sold by a milkman contains 5% water. What quantity of pure milk should be added to 20 liters so that water content comes down to 2%?

    (a) 13 liters   (b) 24 liters   (c) 20 liters   (d) 30 liters

26) In a class, 20 opted for Physics, 17 for Maths, 5 for both and 10 for other subjects. The class contains how many students?

    (a) 42   (b) 35   (c) 52   (d) 60

27) The average age of 11 players of a cricket team is increased by 2 months when two of them aged 18 years and 20 years are replaced by two new players. The average age of the new players is…

    (a) 19 years 1 month   (b) 19 years 11 month

    (c) 19 years 6 month   (d) 19 years 5 month

28) Speed of a man is 10 km/hr in still water. If the rate of current is 3 km/hr, then the effective speed of the man upstream is…

    (a) 7 km/hrs   (b) 8.5 km/hrs   (c) 9 km/hrs   (d)10km/hrs

29) The simple interest on a certain sum at 5% for 9 months is ₹10 greater than the simple interest on the same sum at the rate of 3% for 14 months. What is the sum of interest in both the cases (ie., total sum of interest)?

    (a) ₹130   (b) ₹230   (c) ₹290   (d) ₹330

30) Shan is 55 years old, Sathian is 5 years junior to Shan and 6 years senior to Balan. The youngest brother of Balan is Devan and he is 7 years junior to him. So what is the age difference between Devan and Shan?

    (a) 19 years   (b) 20 years   (c)15 years   (d) 18 years

31) A card is drawn at random from a well-shuffled pack of 52 cards. What is the probability of getting a two of hearts or a two of diamonds?

(a) 3/26   (b) 2/17   (c) 1/26   (d) 4/13

32) Two customers borrowed the same amount of money, one at compound interest and the other at simple interest. If after 2 years, the interest payable by one was ₹220 and by the other ₹200, then what was the principal money lent to each one of them?

(a) ₹450   (b) ₹550   (d) ₹390   (d) ₹500

33) The ratio of the amount for two years under CI annually and for one year under SI is 6:5. When the ratio of interest is same, then the value of the rate of interest is…

(a) 12.5%   (b) 18%   (c)20%   (d) 16.66%

34) The number of real solutions of the equation log(- x) = 2 log (x + 1) is…

(a) One   (b) Two   (c) Three   (d) None

35) In how many ways seven girls and six boys can sit around a round table so that no two boys sit together?

(a) $(6!)^2$ (b) $6! \times 7!$ (c) $(7!)^2$ (d) $6! \times 5!$

36) A medicine company issued ₹1,25,000 shares of par value ₹20 each. If the total dividend declared by the company ₹3,75,000, find the rate of dividend paid by the company.

(a) 12.5%   (b) 18%   (c)15%   (d) 16.66%

37) A box contains 5 brown and 4 white socks. A man takes out two socks. The probability that they are of the same colour is…

(a) 1/6   (b) 5/108   (c) 5/18   (d) 4/9

38) 36, 28, 24, 22, ?

(a) 21   (b) 18   (c) 20   (d) 17

39) A company declared a semi-annual dividend of $7\frac{1}{2}$% Find the annual dividend of Chetan, owning 1,250 shares of the company having a par value of ₹10 each…

(a) ₹1875   (b) ₹1757   (c) ₹1680   (d) ₹1557

40) In an examination there are 30 questions. 1 mark is given for each correct answer and 0.25 is deducted for every incorrect answer. Ankur attempted all the questions and scored 13.75. How many incorrect answers did he have?

(a) 10   (b) 11   (c) 12   (d) 13

41) In a community of 175 pesons, 40 read the Times, 50 read the Samachar and 100 do not read any. How many persons read both the papers?

(a) 20   (b) 18   (c)15   (d) 16

42) There are 6 tasks and 6 persons. Task 1 cannot be assigned either to person 1 or to person 2, task 2 must be assigned to either person 3 or person 4. Every person is to be assigned one task. In how many ways can the assignment be done?

    (a) 144   (b) 180   (c) 192   (d) 360

43) ₹25000 amount of ₹2600 in 5 years at simple interest. If the interest rate were increased by 3%, it would amount to how much?

    (a) ₹1300   (b) ₹23000   (c) ₹2900   (d) ₹3300

44) If there are 12 persons in a party and each of them shakes hands with each other, how many handshakes happen in the party?

    (a)77   (b) 66   (c) 44   (d) 55

45) The average of three consecutive numbers is 12. More than one-third of the first of these numbers. What is the last of three numbers?

    (a) 15   (b) 19   (c) 17   (d)Data inadequate

46) A fair coin is tossed repeatedly. If head appears on the first four tosses, then the probability of appearance of tail on the fifth toss is…

    (a) 1/2   (b) 1/7   (c) 3/7   (d) 2/3

47) Ramesh is twice as good workman as Sunil and finished a piece of work in 3 hrs less than Sunil. In how many hrs, they together could finish that piece of work?

    (a)210   (b) 200   (c) 195   (d) 190

48) If $\log_a (ab) = x$, then $\log_b(ab)$ is…

    (a) $\frac{1}{x}$ (b) $\frac{x}{x+1}$ (c) $\frac{x}{x-1}$ (d) $\frac{x}{1-x}$

49) Find the value of $x^4 + \frac{1}{x^4}$ if $x = 3 + 2\sqrt{2}$

    (a) 12   (b) 9   (c) 36   (d) 6

50) $(x^n - a^n)$ is divisible by (x - a)…

    (a) For all values of n   (b) Only for even values of n

    (c) Only for odd values of n   (d) Only for prime values of n

Date: 15/03/2021   **Time: 12 to 02 pm**   **Marks- 100**

Answer Sheet

Q. NO.	ANSWER	Q. NO.	ANSWER
1	B	26	A
2	D	27	D
3	C	28	A
4	B	29	C
5	D	30	D
6	D	31	B
7	B	32	D
8	A	33	C
9	A	34	A
10	A	35	B
11	B	36	C
12	B	37	D
13	B	38	A
14	A	39	A
15	C	40	D
16	D	41	C
17	C	42	A
18	D	43	C
19	B	44	B
20	D	45	B
21	A	46	A
22	D	47	C
23	B	48	C
24	C	49	D
25	D	50	A

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Mark-sheet

Sr. No.	Name of the Students	Marks	Grade
1	Bodke Amruta Chandrakant	62	A
2	Dhole Dipti Narhari	60	A
3	Ghorpade Priyanka Raju	88	A+
4	Ghorpade Priyanka Vinayak	82	A+
5	Gaikwad Mrudula Raju	88	A+
6	More Dipali Tukaram	80	A+
7	Phadtare Vaishnavi Nitin	84	A+

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

PRINCIPAL,
D. P. Bhosale College,
Koregaon.

Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Attendance

Sr. No.	Roll No.	Name of the Student	1-12-2020	7-12-2020	8-12-2020	14-12-2020	15-12-2020
1	38209	Bodke Amruta Chandrakant	Amruta		Amruta	Amruta	Amruta
2	38210	Dhole Dipti Narhari	Dipti	Dipti	Dipti	Dipti	Dipti
3	38212	Ghorpade Priyanka Raju	Ghorpade	Ghorpade	Ghorpade		Ghorpade
4	38213	Ghorpade Priyanka Vinayak	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade
5	38211	Gaikwad Mrudula Raju	M.R.Gaikwad	M.R.Gaika	M.R.Gaika		M.R.Gaikwad
6	38214	More Dipali Tukaram		More	More	More	More
7	38215	Phadtare Vaishnavi Nitin	V.N.phadtee	V.N.phadtee	V.N.phadtee	V.N.phadtee	

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's
D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Attendance

Sr. No.	Roll No.	Name of the Student	21/12/2020	22/12/2020	28/12/2020	29/12/2020	4/01/2021
1	38209	Bodke Amruta Chandrakant	Amruta		Amruta	Amruta	Amruta
2	38210	Dhole Dipti Narhari	DiptiD	DiptiD	DiptiD	DiptiD	DiptiD
3	38212	Ghorpade Priyanka Raju	Ghorpade	Ghorpade		Ghorpade	Ghorpade
4	38213	Ghorpade Priyanka Vinayak	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade	
5	38211	Gaikwad Mrudula Raju	MR.Gaikwad	m.RGaikwad	M.RGaikwad	m.RGaikwad	m.RGaikwad
6	38214	More Dipali Tukaram	DMore	DMore	DMore	DMore	DMore
7	38215	Phadtare Vaishnavi Nitin	V.N.phadtee	V.N.phadtee	V.N.phadtee	V.N.phadtee	V.N.phadtee

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Attendance

Sr. No.	Roll No.	Name of the Student	5/01/2021	19/01/2021	12/01/2021	18/01/2021	19/01/2021
1	38209	Bodke Amruta Chandrakant		Amruta	Amruta	Amruta	Amruta
2	38210	Dhole Dipti Narhari	Dipti	Dipti	Dipti		Dipti
3	38212	Ghorpade Priyanka Raju	Ghorpade	Ghorpade	Ghorpade	Ghorpade	
4	38213	Ghorpade Priyanka Vinayak	P.V.Ghorpade	P.V.Ghorpade		P.V.Ghorpade	P.V.Ghorpade
5	38211	Gaikwad Mrudula Raju	M.R.Gaikwad	M.R.Gaikwad	M.R.Gaikwad	M.R.Gaikwad	M.R.Gaikwad
6	38214	More Dipali Tukaram	More	More		More	More
7	38215	Phadtare Vaishnavi Nitin	V.N.phadtare	V.N.phadtare	V.N.phadtare	V.N.phadtare	

Aalunkhe

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Mathematics

Skill Based Course in

Basic Mathematics for Competitive Exams

Attendance

Sr. No.	Roll No.	Name of the Student	25/01/2021	01/02/2021	02/02/2021	08/02/2021	09/02/2021
1	38209	Bodke Amruta Chandrakant	Amruta	Amruta	Amruta	Amruta	Amruta
2	38210	Dhole Dipti Narhari	Dipti D	Dipti D		Dipti D	Dipti D
3	38212	Ghorpade Priyanka Raju	Ghorpade		Ghorpade	Ghorpade	Ghorpade
4	38213	Ghorpade Priyanka Vinayak	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade	P.V.Ghorpade
5	38211	Gaikwad Mrudula Raju		M.R.Gaikwad	M.R.Gaikwad	M.R.Gaikwad	M.R.Gaikwad
6	38214	More Dipali Tukaram	More		More	More	More
7	38215	Phadtare Vaishnavi Nitin	V.N.phadtare	V.N.phadtare	V.N.phadtare		V.N.phadtare

Salunkhe

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

D. P. Bhosale College, Koregaon
Department of Mathematics
Skill Based Course in
Basic Mathematics for Competitive Exams

Attendance

Sr. No.	Roll No.	Name of the Student	15/02/2021	16/02/2021	22/02/2021	23/02/2021	01/03/2021
1	38209	Bodke Amruta Chandrakant	Amruta	Amruta		Amruta	Amruta
2	38210	Dhole Dipti Narhari	DiptiD	DiptiD	DiptiD	DiptiD	DiptiD
3	38212	Ghorpade Priyanka Raju	Rhorpade	Rhorpade	Rhorpade	Rhorpade	Rhorpade
4	38213	Ghorpade Priyanka Vinayak	P.V. Ghorpade	P.V. Ghorpade	P.V. Ghorpade	P.V. Ghorpade	
5	38211	Gaikwad Mrudula Raju	M.R Gaikwad			M.R Gaikwad	M.R. Gaiko	M.R Gaikwad
6	38214	More Dipali Tukaram	More	More	More	More	More
7	38215	Phadtare Vaishnavi Nitin	V.N.phadtee		V.N.phadtee	V.N phadtee	V.N. phadtee

Head
Department of Mathematics
D. P. Bhosale College, Koregaon

Rayat Shikshan Sanstha's

D. P. BHOSALE COLLEGE, KOREGAON

SKILL BASED COURSE

Certificate

This is to certify that Mr./Miss………………………………………………………………………

CLASS : …………………………………SUBJECT………………………………………………………

has successfully completed three months

"Skill Based Course" in .Basic Mathematics for Competitive Examinations…………

From .Dec. 2020… to …Mar. 2021…… and obtained ……………………….. Grade.

Chairman   Course Co-ordinator   Principal