Date:-22/07/2022

DEPARTMENT OF COMMERCE

"Notice"

All F.Y/S.Y/-B.Com,B.Sc Student's hereby inform you that our college has been implementing a short term course on Basics in Mathematics, The course would be implemented and displayed on notice board .kindly see the notice board and contact for the registration to Asst.Prof. Pradhan Madam.

Head
Department of Commerce

KOLAD

PRINCIPAL
TCT Dr. Shree. Nanasaheb Dharmadhikari
Arts, Commerce & Science College Gove-Kolad
Tal. Roha, Dist. Raigad.

TATKARE CHARITABLE TRUSTS,
DR.S.N.D. ARTS, COMMERCE& SCIENCE COLLEGE,
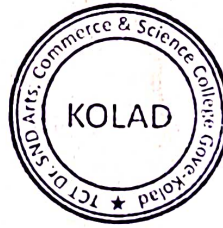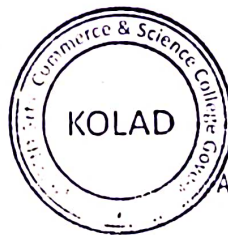GOVE-KOLAD, ROHA-RAIGAD
ACADEMIC YEAR 2022-2023

SYLLABUS

'BASICS IN MATHEMATICS'

SR.NO.	CONTENT
1	Algebra
2	Geometry
3	Trigonometry
4	Calculus
5	Statistics and Probability
6	Positive Rational Numbers
7	Integers and Negative Rational Numbers
8	Numerical and Algebraic Expressions
9	Ratios and Rates
10	Statistical Analysis

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GOVE-KOLAD, ROHA-RAIGAD
ACADEMIC YEAR 2022-2023

Department of Commerce

Course Name
SUBJECT – BASICS IN MATHEMATICS

TIME TABLE

CLASS– B.Com / B.Sc   **DATE** - 03/08/2022 TO 24/08/2022

DAYS	TIME
MONDAY	1:30PM TO 2:30PM
TUESDAY	1:30PM TO 2:30PM
WEDNESDAY	1:30PM TO 2:30PM
THURSDAY	1:30PM TO 2:30PM
FRIDAY	1:30PM TO 2:30PM
SATURDAY	1:30PM TO 2:30PM

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Note:- 1) Black Pen is Compulsory.

      2) All Questions Are Compulsory.

      3) Each Question carries 2 marks.

1) $5 + 2 =$

   A: 5   B: 6   C: 7   D: 8   E: None of these

2) Which is the largest number?

   A: 403   B: 4600   C: 406   D: 4060   E: None of these

3) 4879 What value does the circled number in the number above represent?

   A: 4879   B: 700   C: 70   D: 7   E: None of these

4) $-10 + -3 - -4 + 5$

   A: 2   B: -12 C: -4 D: 16   E: None of these

5) $-96 \div -6 \div 8 =$

   A: 2   B: 12   C: -12 D: -2 E: None of these

6) Jo bought a used car for $6000 and paid 15% deposit. How much did he still have to pay?

   A: $900   B: $5000   C: $4500   D: $5100   E: None of these

7) $5 \times -2 - 8(-)12 + 16 \div -8 =$

   A: 6   B: -8 C: -16 D: -6 E: None of these

8) What is 8% of $600?

   A: $580   B: $480   C: $48   D: $58   E: None of these

9) Which is the longest distance?

   A: 3500cm   B: 65.5m   C: 75000mm   D: 15.5m   E: 0.1km

10) If 2 1 /3 : 4 1 /3 then 7: =

   A: 12   B: 13   C: 8 2 /3   D: 6 1 /3   E: None of these

11) Which inequation shows the following statement? x is 6 or less and more than -5

   A: $-5 < x \leq 6$ B: $-5 > x \leq 6$ C: $-5 \leq x \leq 6$ D: $-5 < x < 6$ E: $-5 \leq x < 6$

12) Expand and simplify $-6(2x-3)-11$

   A: $-12x-29$ B: $7-12x$ C: $12x-7$ D: $7+12x$ E: None of these

13) Simplify the surd 3 56 completely

   A: 12 14 B: 5 14 C: 6 14 D: 6 28 E: None of these

14) What is the speed in m/s of a car that travels 30km in 20 minutes?

   A: 1500 m/s B: 150 m/s C: 90 m/s D: 540 m/s E: None of these

15) $-(-3)^3 =$

   A: -9 B: 27 C: 9 D: -27 E: None of these

16) Expand and simplify $(3a-5b)(3a+5b)$

   A: $9a-25b$ B: $9a+25b$ C: $2\ 2\ 9a+25b$ D: $2\ 2\ 9a-25b$ E: None of these

17) Factories and simplify $3a^2+3a-18$

   A: $(a+3)(a-2)$ B: $3(a-3)(a+2)$ C: $3(a-3)(a-2)$ D: $3(a+3)(a-2)$ E: None of these

18) Factorise $ab+b^2-ac-bc$

   A: $(b-c)(a-c)$ B: $(b+a)(b+c)$ C: $(b-c)(a+b)$ D: $(b+c)(a-b)$ E: $(b-c)(a+c)$

19) Find out the square root of 100?

   A: 10000 B:1000 C:100 D:100000 E:10

20) Find the cube of 96?

   A: 884736 B:3456 C: 25478 D:54789 E:47

21) Add the Decimals $5.23+8.79$

   A:14.02   B:14.19 C:14.11 D:14.29 E: 14

22) How Many Months Have 120 Days?

   A: 2 months B:4 months C:11 months D:12 months E: 1 month

23) What Number Comes Before 9019?

   A: 9099 B:9091 C:9109 D:None of these E: 90

24) What is the product of 121 x 0 x 20 x 2.5 –

   A: 6050 B:0   C:2,420 D:None of the above E:2,000

25) 27 is a perfect cube. If true then what is the perfect cube of 27?

   A: 9   B:6   C:3   D: 27 is not a perfect cube E: 7

TATKARE CHARITABLE TRUST

DR.SHREE.NANASAHEB DHARMADHIKARI

ARTS,COMMERCE & SCIENCE COLLEGE GOVE KOLAD.

CERTIFICATE

This is to Certify That

Has Successfully Completed the

Short Term Course

"BASICS IN MATHEMATICS"

Organised by Department of Commerce

TEACHER-IN-CHARGE   H.O.D.   PRINCIPAL

DATE : _____

TCT'S

Dr. Shree Nanasaheb Dharmadhikari Art's , Commerce And Science College Gove-Kolad.

(2022-23)

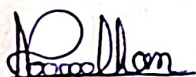## Report on the short term course on "Basics in Mathematics

Department of Commerce organized ,The short term course which was conducted from 03/08/2022 to 24/08/2022.Basics in Mathematics. The course began with the inaugural function at 11:30 A.M. By the Dr.Munde S.S. Principal of Dr. Shree Nanasaheb Dharmadhikari Art's , Commerce And Science College Gove-Kolad.

        This short term course was beneficial for our students to have knowledge on **"Basics in Mathematics .** So it will further helpful for there future goals. We realized the need for such a knowledge for the students upcoming future.

Basics in Mathematics, So it was proposed that a short term courses for the students to realized the need for such a course for good reasons.

All the Days sessions were conducted by Asst.Prof. Nehal Pradhan(Course Coordinator) who spoke on the importance of Basics knowledge Mathematics for the Competitive examination as well as interviews. All sessions are distributed as per syllabus / content. The Purpose behind this term for students to be encourage in activities and logical Math. The session ended giving participants certificates by the hands of Dr.Munde S.S.

(Asst.Prof. Nehal Pradhan)
Course Coordinator

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