



"Education for Knowledge, Science, and Culture"
- Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha's
Vivekanand College, Kolhapur
(Empowered Autonomous)



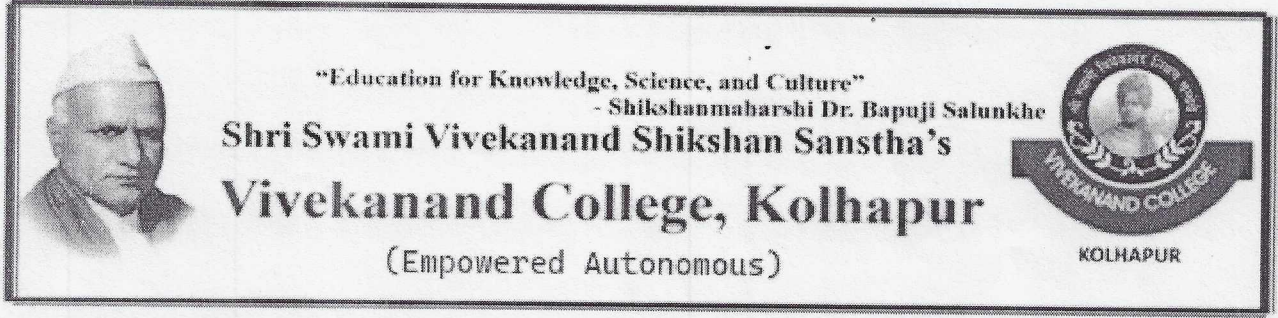
DEPARTMENT OF MATHEMATICS

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Remedial Coaching : 2023-24



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DEPARTMENT OF MATHEMATICS

Date: 22/09/2023

REMEDIAL COACHING: 2023-2024

Notice

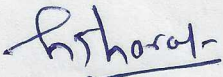
All the students of B.Sc. I are hereby informed that lectures of Remedial coaching 2023-2024 will be conducted from 01/10/2023.

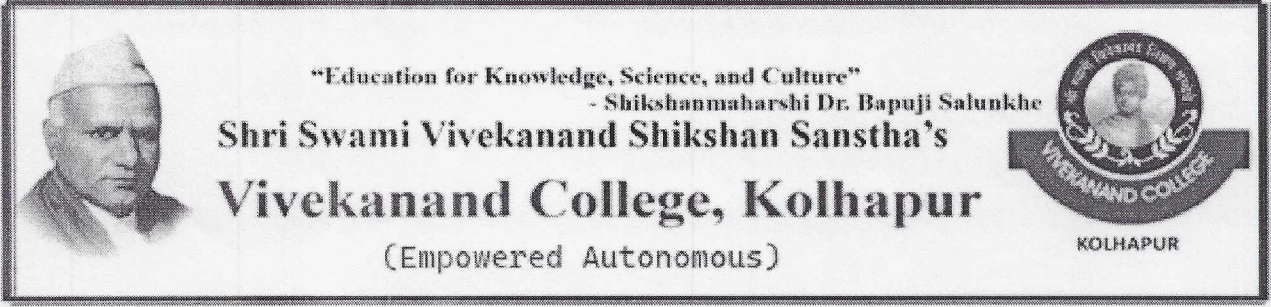
The first test will be taken on 29/09/2023 on which the students will be selected for coaching.

Venue : Room no. 39

Time : 01:00 PM to 02:00 PM




(Prof. S.P. Thorat)
HEAD
DEPARTMENT OF MATHEMATICS
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



DEPARTMENT OF MATHEMATICS


Date : 01/11/2023

REMEDIAL COACHING: 2023-2024

Notice

All the students of remedial coaching 2023-2024 are hereby informed that final test will be conducted on 11/11/2023 in room. No. 39 at 01:00 PM to 02:00 PM




(Prof. S.P. Thorat)
HEAD
DEPARTMENT OF MATHEMATICS
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

VIVEKANAND COLLEGE (EMPOWERED AUTONOMOUS), KOLHAPUR
Department of Mathematics

REMEDIAL COACHING: 2023-2024

List

Sr. No.	Name of the Student
1	Raut Rushikesh Sarjerao
2	Sayyad Nihal Riyaj
3	Kamble Shrirang Bhagwan
4	Tonpe Sahil Shivaji
5	Shinde Shrishail Shripati
6	Sankpal Kajal baliram
7	Kamble Samrat suresh
8	Bhajnavle Samiksha raju
9	Tonape Sahil Shivaji
10	Lad Aalok bajarangs

VIVEKANAND COLLEGE (EMPOWERED AUTONOMOUS), KOLHAPUR

Department of Mathematics

REMEDIAL COACHING: 2023-2024

Presenty

Date

Sr. No.	Name of the Students	06/10/2023	07/10/2023	13/10/2023	14/10/2023	20/10/2023
1	Raut Rushikesh Sarjerao	Rushi	Rushi	AB	Rushi	Rushi
2	Sayyad Nihal Riyaj	N.S. Riyaj	N.S. Riyaj	N.S. Riyaj	N.S. Riyaj	N.S. Riyaj
3	Kamble Shrirang Bhagwan	Kamble	Kamble	Kamble	Kamble	Kamble
4	Tonpe Sahil Shivaji	AB	S. Tonpe	S. Tonpe	AB	S. Tonpe
5	Shinde Shrishail Shripati	S. Shinde	S. Shinde	S. Shinde	S. Shinde	S. Shinde
6	Sankpal Kajal baliram	K.B. Sankpal	K.B. Sankpal	K.B. Sankpal	K.B. Sankpal	K.B. Sankpal
7	Kamble Samrat suresh	S.S. Kamble	AB	S.S. Kamble	S.S. Kamble	S.S. Kamble
8	Bhajnavle Samiksha raju	SRB	SRB	SRB	SRB	SRB
9	Tonape Sahil Shivaji	S.S. Tonape	S.S. Tonape	S.S. Tonape	S.S. Tonape	AB
10	Lad Aalok bajarangs	LAad	LAad	LAad	LAad	LAad

Date

Sr. No.	Name of the Student	21/10/2023	27/10/2023	28/10/2023	30/10/2023	31/10/2023
1	Raut Rushikesh Sarjerao	AB	Rushi	Rushi	Rushi	AB
2	Sayyad Nihal Riyaj	N.S. Riyaj	N.S. Riyaj	N.S. Riyaj	N.S. Riyaj	N.S. Riyaj
3	Kamble Shrirang Bhagwan	Kamble	Kamble	Kamble	Kamble	Kamble
4	Tonpe Sahil Shivaji	S. Tonpe	S. Tonpe	S. Tonpe	S. Tonpe	S. Tonpe
5	Shinde Shrishail Shripati	S. Shinde	AB	S. Shinde	S. Shinde	S. Shinde
6	Sankpal Kajal baliram	K.B. Sankpal	K.B. Sankpal	K.B. Sankpal	K.B. Sankpal	K.B. Sankpal
7	Kamble Samrat suresh	S.S. Kamble	S.S. Kamble	S.S. Kamble	AB	S.S. Kamble
8	Bhajnavle Samiksha raju	SRB	SRB	AB	SRB	SRB
9	Tonape Sahil Shivaji	S.S. Tonape	S.S. Tonape	S.S. Tonape	S.S. Tonape	S.S. Tonape
10	Lad Aalok bajarangs	LAad	LAad	AB	LAad	LAad

VIVEKANAND COLLEGE (EMPOWERED AUTONOMOUS), KOLHAPUR

Department of Mathematics

REMEDIAL COACHING: 2023-2024

Progress

Sr. No.	Name of the Student	First Test	Second Test	Progress
1	Sakshi Bajirao Kupale	06	06	00%
2	Manasi Tanaji Jamdade	08	14	30%
3	Sakshi Ravindra Bavne	04	14	50%
4	Sandhya Dattatray Kagavle	04	10	30%
5	Saloni Sanjay Kurade	06	10	20%
6	Vinayak Nandkumar Gosavi	10	12	10%
7	Suyash Sanjay Dongre	10	16	30%
8	Ankit Vinayak Kadwale	10	14	20%
9	Prathamesh Abaji Dongre	04	10	30%
10	Aditya Ganpat Chilgonde	10	10	00%

Date : 29/09/2023

Time : 01:00PM -02:00 PM

Tick the correct answer from the following.

1. If $|A| = 5$ then number of elements in power set of A is....
A) 5 B) 2^4 C) 5^2 D) 32
2. If $A = \{x \mid x < 1 \text{ and } x \in \mathbb{N}\}$ then A is
A) Infinite set B) Empty set C) Singleton set D) Superset
3. If relation R is defined by $R = \{(1,2), (3,6), (4,8), (5,10), (7,14)\}$ then domain of R is...
A) $\{1,2,3,4,5,6,7,8,9,10,14\}$ B) $\{1,3,4,5,7\}$ C) $\{2,6,8,10,14\}$ D) $\{1,2,3,4,5,6,7,8,10\}$
4. A relation R is partial ordering relation if R is...
A) Reflexive, Antisymmetric, transitive B) Reflexive, symmetry, transitive
C) Reflexive, antisymmetric D) Reflexive, symmetry, non-transitive
5. If $R = \{(a,b) \mid a, b \in \mathbb{R} \text{ and } a < b\}$ then R is....
A) Partial ordering B) Equivalence relation C) Not partial ordering D) Both A and B
6. Which of the following is bijective function?
A) $y = x^2$ B) $y = x^4$ C) $y = x^6$ D) $y = x^3$
7. $A = \{(a,b), (a,c), (a,a), (b,b), (c,c)\}$ on $A = \{a,b,c\}$ Then A is
A) Reflexive B) Symmetric C) Non reflexive D) Irreflexive
8. The arithmetic mean of 15 numbers is 41.4 then the sum of these numbers is...
A) 414 B) 420 C) 621 D) 621
9. If simple interest on Rs. 600 for 4 years and on Rs. 600 on 2 years combined together is Rs. 180 find the rate of interest.
A) 4% B) 5% C) 5.5% D) 6.25%
10. The type of matrix M is.....matrix where $M = \begin{bmatrix} 2 & 4 \\ 0 & 6 \end{bmatrix}$.
A) Upper triangular B) Identity C) Lower triangular D) Diagonal
11. A train 280m long, running with a speed of 63km/hr will pass a tree in....
A) 15 sec B) 16 sec C) 18 sec D) 20 sec
12. Find the average of following sets of scores, 122, 246, 358, 46, 78, 674.
A) 251 B) 342 C) 254 D) 352

13. What is gcd of x^3y^5m and xy^4k ?

- A) xy^5 B) xky^5 C) xmy^5 D) xy^4

14. What is lcm of $\frac{2}{3}, \frac{4}{9}, \frac{5}{6}$?

- A) $\frac{20}{3}$ B) $\frac{1}{36}$ C) $\frac{35}{9}$ D) $\frac{1}{18}$

15. If $\frac{175}{\sqrt{x}} = 25$ then find x.

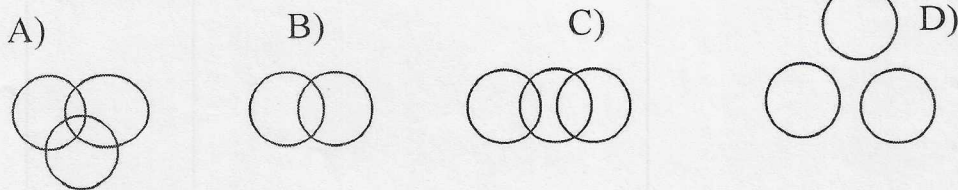
- A) 50 B) 49 C) 64 D) 81

16. $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}} = ?$

- A) 1 B) 4 C) 3 D) 6

17. Which of the following diagram is correct representation of

Male, Female, Professors



18. A train travels 82.6 km/hr . How many meters it will travel in 15 min.

- A) 20650 m B) 20780 m C) 23450m D) 2509m

19. A cyclist covers a distance of 750m in 2 min 30 sec. What is the speed in km/hr of the cyclist?

- A) 17 B) 18 C) 19 D) 20

20. What is fourth proportional to 4,9,12?

- A) 24 B) 23 C) 30 D) 27

VIVEKANAND COLLEGE (EMPOWERED AUTONOMOUS), KOLHAPUR

Department of Mathematics
REMEDIAL COACHING: 2023-2024

Test II

Date : 11/11/2023

Time : 01:00PM -02:00 PM

Tick the correct answer from the following.

Q.1) If $y = e^{mx} + e^{-mx}$ then $\frac{d^2y}{dx^2} = \dots$

- A) m^2y B) my C) $-my$ D) $-m^2y$

Q.2) If $\int_0^a 3x^2 dx = 8$, find the value of a.

- A) 2 B) -3 C) 3 D) -2

Q.3) The derivative of $x^2 \cos x$ is....

- A) $2x \cos x - x^2 \sin x$ B) $2x \cos x - x^2 \sin x$
C) $2x \sin x - x^2 \cos x$ C) $\cos x - x^2 \sin x \cos x$

Q.4) If $y = 2^x$ then $\frac{dy}{dx} = \dots$

- A) $x(2^{x-1})$ B) $\frac{2^x}{\log 2}$ C) $2^x \log 2$ D) None Of these

Q.5) If A and B are symmetric matrices of same order, then $AB - BA$ is a

- A) Skew - symmetric matrix B) Symmetric matrix
C) Zero matrix D) Identity

Q.6). If $\frac{175}{\sqrt{x}} = 25$ then find x.

- A) 50 B) 49 C) 64 D) 81

Q.7) $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}} = ?$

- A) 1 B) 4 C) 3 D) 6

Q.8) In what time will Rs. 8,000 amount to Rs. 8,820 at 10% per annum interest compounded half-yearly?

- A) 1 B) 2 C) 3 D) 4

Q.9) Rs, 16000 invested at 10% p.a. compounded semi-annually amounts to Rs. 18,522.

What is the time period of investment.

- A) 2 B) $1\frac{1}{2}$ C) 3 D) 6

Q.10) The differential equation of the function $c + 4yx = 0$ is....

- A) $xy + \frac{dy}{dx} = 0$ B) $x \frac{dy}{dx} + y = 0$ C) $\frac{dy}{dx} - 4xy = 0$ D) $x \frac{dy}{dx} + 1 = 0$

Q.11) The number of binary operations on the set $\{a, b\}$ are....

- A) 10 B) 16 C) 20 D) 8



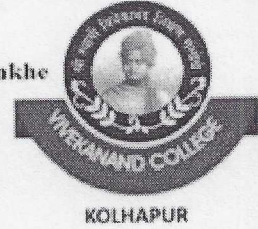
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DEPARTMENT OF MATHEMATICS

2023-2024

Report: Remedial Coaching



1. Name of Department : Mathematics
2. Name of Organized Activity : Remedial Coaching
3. Date/ Duration : 01/10/2023 – 11/11/2023
- Aims and Objectives :
 1. To Enhance Academic Performance of slow learners
 2. To develop basic knowledge about mathematics in average student.
4. No. of beneficiaries : Total = 10

Students	Male	06
	Female	04

6. Expenditure & funding agency : Nil

7. Brief description : On the behalf of Mathematics department remedial coaching was arranged for Slow learners. First test was taken on 29/09/2023 of 20 marks. Slow learners were chosen on basis of marks in first test. Total ten number of lectures were arranged from 06/10/2023 to 31/11/2020.

Former faculty of department of mathematics conducted lectures in room no. 39 at 09:30 AM to 11:30 AM on each Friday and Saturday. Students were eager to learn and were grateful to organiser.

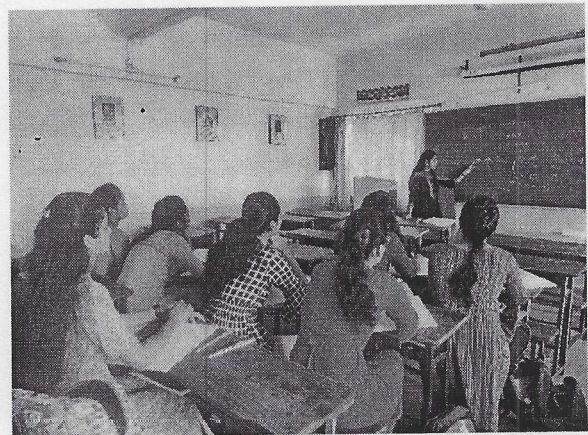
8. Outcomes :

1. Students learns basic knowledge of mathematic
2. Performance of slow learners is improved.

9. Photos : Enclosed

10. Signatures of coordinator/ organizer:

Ms. P.P. Kulkarni.



P.P. Kulkarni
HEAD

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