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Remedial Coaching: 2021-2022

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ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार'
-शिक्षण महर्षी डॉ. बपुजी साळुंखे




VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Mathematics


REMEDIAL COACHING

2021-2022

02 December, 2021 to 01 January, 2022


Prof. G. B. Kolhe
Co-ordinator




Prof. S. P. Patankar
HOD
HEAD
Department of Mathematics
Vivekanand College, Kolhapur


‘ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षणप्रसार’
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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR
REMEDIAL COACHING

Goals & Objectives

- 1) Finding out the strengths and weaknesses of the average students.
- 2) To increase the academic ability of average students as compared to normal students.
- 3) To help increase the prior knowledge of the average students.
- 4) To add to the knowledge of dynamic students with changing times.
- 5) To provide facilities for academic improvement of average students.




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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Mathematics

REMEDIAL COACHING

NOTICE

Date: 29/11/2021

All the students of B.Sc.I are hereby informed that, lectures of "Remedial Coaching" will be conducted from 02/12/2021 to 01/01/2022. Those students should be present for lectures.


Place : Department of Mathematics, Room No. 39

Time : 11.30 am to 12.30 pm

Contact Details : Prof. S. P. Patankar (HOD) (9850055519)

Prof. S. P. Thorat (9970929595)




Prof. S. P. Patankar
HEAD
Department of Mathematics
Vivekanand College, Kolhapur

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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Mathematics

REMEDIAL COACHING

NOTICE

Date: 01/01/2022

All the students of B.Sc.I are hereby informed that, lectures of “Remedial Coaching” were conducted from 02/12/2021 to 01/01/2022. Those students who are participated their exam will be conducted on 05/01/2022 at 11.30 am to 12.00 pm.

Place : Department of Mathematics, Room No. 39

Time : 11.30 am to 12.00 pm

Contact Details : Prof. S. P. Patankar (HOD) (9850055519)

Prof. S. P. Thorat (9970929595)



Patankar

Prof. S. P. Patankar

HOD

HEAD

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Vivekanand College, Kolhapur**

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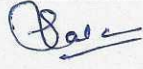


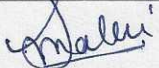

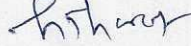
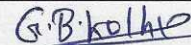
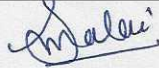
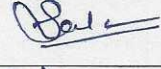
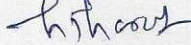
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REMEDIAL COACHING

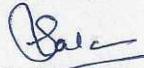
TIMETABLE

Date: 02/12/2021 to 01/01/2022 (Ten Days)

Time: 11.30 am to 12.30 pm

Sr. No.	Date	Name of Teacher	Sign
1.	02/12/2021	Prof. S. P. Patankar	
2.	04/12/2021	Prof. S. P. Thorat	
3.	09/12/2021	Prof. G. B. Kolhe	
4.	11/12/2021	Prof. S. M. Malavi	
5.	16/12/2021	Prof. S. P. Patankar	
6.	18/12/2021	Prof. S. P. Thorat	
7.	23/12/2021	Prof. G. B. Kolhe	
8.	25/12/2021	Prof. S. M. Malavi	
9.	30/12/2021	Prof. S. P. Patankar	
10.	01/01/2022	Prof. S. P. Thorat	




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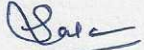
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REMEDIAL COACHING

SYLLABUS & TIMETABLE

Sr. No.	Unit No.	Name of Unit	No. of Hours
1.	Unit 1	Matrices	2
2.	Unit 2	Geometry	2
3.	Unit 3	Calculus	2
4.	Unit 4	Differentiation	2
5.	Unit 5	Integration	2





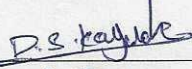

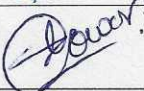

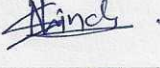


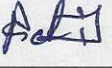

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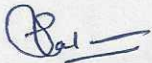
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REMEDIAL COACHING

Students List

Sr. No.	Name of Student	Percentage	Sign
1.	Ajit Baban Shinde	77%	
2.	Omkar Nandkumar More	75%	
3.	Darshan Sanjay Kajude	80%	
4.	Shaikh Adnan MH	56%	
5.	Shridhar Ashok Powar	75%	
6.	Hardik Dilip Patil	76%	
7.	Aary Anil Shinde	69%	
8.	Shakti Prakash Patil	83%	
9.	Vipul Ashok Patil	71.60%	
10.	Atharv Shahaji Patil	63.33%	




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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Mathematics

REMEDIAL COACHING

Students Attendance

Sr. No.	Name of Student	02/12/ 2021	04/12/ 2021	09/12/ 2021	11/12/ 2021	16/11/ 2021
1.	Ajit Baban Shinde	P	P	AB	P	P
2.	Omkar Nandkumar More	P	P	P	AB	P
3.	Darshan Sanjay Kajude	P	P	P	P	AB
4.	Shaikh Adnan MH	P	P	P	P	P
5.	Shridhar Ashok Powar	P	AB	P	P	P
6.	Hardik Dilip Patil	P	P	AB	P	P
7.	Aary Anil Shinde	P	P	P	AB	P
8.	Shakti Prakash Patil	P	AB	P	P	P
9.	Vipul Ashok Patil	P	P	AB	P	P
10.	Atharv Shahaji Patil	P	P	P	AB	P

Sr. No.	Name of Student	18/12/ 2021	23/12/ 2021	25/12/ 2021	30/12/ 2021	01/01/ 2022
1.	Ajit Baban Shinde	P	AB	P	P	P
2.	Omkar Nandkumar More	P	P	P	AB	P
3.	Darshan Sanjay Kajude	P	P	P	P	P
4.	Shaikh Adnan MH	P	AB	P	P	P
5.	Shridhar Ashok Powar	P	P	P	AB	P
6.	Hardik Dilip Patil	P	AB	P	AB	P
7.	Aary Anil Shinde	P	P	AB	P	P
8.	Shakti Prakash Patil	P	AB	P	P	P
9.	Vipul Ashok Patil	P	P	P	AB	P
10.	Atharv Shahaji Patil	P	AB	P	P	P



(Signature)

Prof. S. P. Patankar
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Department of Mathematics
Vivekanand College, Kolhapur

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Department of Mathematics

REMEDIAL COACHING

Marklist

Date:

Sr. No.	Name of Student	Marks
1.	Ajit Baban Shinde	80%
2.	Omkar Nandkumar More	80%
3.	Darshan Sanjay Kajude	90%
4.	Shaikh Adnan MH	60%
5.	Shridhar Ashok Powar	80%
6.	Hardik Dilip Patil	80%
7.	Aary Anil Shinde	70%
8.	Shakti Prakash Patil	100%
9.	Vipul Ashok Patil	80%
10.	Atharv Shahaji Patil	65%



S. P. Patankar

Prof. S. P. Patankar

**HOD
HEAD**

Department of Mathematics
Vivekanand College, Kolhapur

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VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR

Department of Mathematics

REMEDIAL COACHING

Progress Report

Date:

Sr. No.	Name of Student	Previous Marks	Remedial Class Marks	Progress
1.	Ajit Baban Shinde	77%	86%	3%
2.	Omkar Nandkumar More	75%	80%	5%
3.	Darshan Sanjay Kajude	80%	90%	10%
4.	Shaikh Adnan MH	56%	60%	4%
5.	Shridhar Ashok Powar	75%	80%	5%
6.	Hardik Dilip Patil	76%	80%	4%
7.	Aary Anil Shinde	69%	70%	1%
8.	Shakti Prakash Patil	83%	100%	17%
9.	Vipul Ashok Patil	71.60%	80%	8%
10.	Atharv Shahaji Patil	60.33%	65%	5%



Prof. S. P. Patankar
HOD

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Department of Mathematics
Vivekanand College, Kolhapur

VIVEKANAND COLLEGE (AUTONOMOUS), KOLHAPUR
Department of Mathematics
REMEDIAL COACHING

2021-2022

02 December, 2021 to 01 January, 2022

Report

On behalf of the Mathematics department, to organize remedial coaching classes for the development of comprehension skills for average students and to acquire knowledge of mathematical concepts from 02nd December, 2021 to 01st January, 2022 from 11.30 to 12.30 daily with attachments of Syllabus, Time Table, Student Attendance, Photographs, Question Papers. In this remedial coaching class of B.Sc.I, 10 students participated spontaneously. This coaching class was planned by Prof. S. P. Thorat, Prof. G. B. Kolhe, Prof. S. M. Malavi, Principal of the college. Mr. R. R. Kumbhar and Head of Mathematics Department Prof. S. P. Patankar. This report is being submitted for the information of the college.



Prof. S. P. Patankar
HEAD

Department of Mathematics
Vivekanand College, Kolhapur



“Education for Knowledge, Science, and Culture”

- Shikshanmaharshi Dr. Babuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

**Vivekanand College, Kolhapur
(Autonomous)**



2021-22

Report: Remedial Caching



1. Name of Department : Mathematics
2. Name of Organized Activity : Remedial Caching
3. Date/ Duration : 02/12/2021 – 01/01/2022
4. Aims and Objectives : 1. Development of comprehension skills for Average students
2. Acquire knowledge of mathematical concepts
5. No. of beneficiaries : Total = 10

Teachers	Male	02
	Female	01
Students	Male	09
	Female	01

6. Expenditure & funding agency : Nil

7. Brief description : On the behalf of Mathematics department , Remedial coaching classes were organized for the development of comprehension skills for average students and to acquire knowledge of mathematical concepts from 02nd December, 2021 to 01st January,2022 at 11:30 AM to 12:30 PM daily.

8. Outcomes : 1. Students understood the importance of basic mathematical concepts
2. Students Acquired knowledge of mathematical concepts

9. Photos : Enclosed

10. Signatures of coordinator/ organizer: Mr. G. B. Kolhe.

G. B. Kolhe
HEAD

Department of Mathematics
Vivekanand College, Kolhapur

Class: B.Sc.I

Marks: 20

Name: Shakti Prakash Patil

Date: 05/01/2022

Note: Tick mark(✓) the correct alternative.

Q1) The perpendicular distance the straight lines $6x+8y+15=0$ and $3x+4y+9=0$ is-----

- a) $\frac{3}{2}$ ✓ b) $\frac{3}{10}$ c) $\frac{3}{4}$ d) $\frac{2}{7}$

Q2) Value of $\int_{-2}^2 (x^2 + \sin x) dx =$ -----

- ✓ a) 0 b) 1 c) 2 d) 3

Q3) Value of $\sqrt{2 + \sqrt{2 + 2 \cos 4\theta}} =$ -----

- a) $2 \sin \theta$ ✓ b) $2 \cos \theta$ c) $\sin \theta$ d) $\cos \theta$

Q4) If $\frac{dy}{dx} - 4y = 0$ then the solution of the differential $y(0) = 1$ is-----

- a) $y = 4e^x$ ✓ b) $y = e^{4x}$ c) $y = e^{-4x}$ d) $y = e^{x+4}$

Q5) M and N are the midpoints of the diagonals AC and BD respectively of quadrilateral ABCD then $\overline{AB} + \overline{AD} + \overline{CB} + \overline{CD} =$ -----

- a) $2\overline{MN}$ b) $2\overline{NM}$ ✓ c) $4\overline{MN}$ d) $4\overline{NM}$

Q6) If $\sin x$ is the integral factor (I.F.) of the differential equation

$\frac{dy}{dx} + Py = Q$ then p is -----

- a) $\log \sin x$ b) $\cos x$ c) $\tan x$ ✓ d) $\cot x$

Q7) If $A^{-1} = \frac{-1}{2} \begin{bmatrix} 1 & -4 \\ -1 & 2 \end{bmatrix}$ then $2A + I_2 =$ ---- where I_2 is the unit matrix of order 2.

- a) $\begin{bmatrix} 5 & 8 \\ 2 & 3 \end{bmatrix}$ b) $\begin{bmatrix} 5 & 8 \\ 1 & 2 \end{bmatrix}$ ✓ c) $\begin{bmatrix} 2 & 4 \\ 1 & 1 \end{bmatrix}$ d) $\begin{bmatrix} 5 & 8 \\ 2 & 2 \end{bmatrix}$

Q8) If $F(\alpha) = \begin{bmatrix} \cos \alpha & -\sin \alpha & 0 \\ \sin \alpha & \cos \alpha & 0 \\ 0 & 0 & 1 \end{bmatrix}$ where $\alpha \in \mathbb{R}$ then $[F(\alpha)]^{-1} =$ -----

- a) $F(2\alpha)$ b) $F(3\alpha)$ ✓ c) $F(\alpha)$ d) $F(-\alpha)$

Q9) $\int e^{\tan x} (\sec^2 x + \sec^3 x \sin x) dx =$ -----

- ✓ a) $e^{\tan x} + \tan x + C$ b) $\sec x e^{\tan x} + C$
c) $\tan x e^{\tan x} + C$ d) $(1 + \tan x) e^{\tan x} + C$

Q10) If the polar co-ordinates of a point are $(\sqrt{2}, \frac{\pi}{4})$ then its Cartesian co-ordinates are-----

- a) (1,1) b) $(2, \sqrt{2})$ ✓ c) $(\sqrt{2}, 2)$ d) (1,-1)



Date : 01/12/2021

Marks : 20

Name :

Note : Tick mark the correct alternative.

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 $A = \begin{bmatrix} 0 & 2 \\ 2 & 0 \end{bmatrix}$ then A^2 is...

- A) $\begin{bmatrix} 0 & 4 \\ 4 & 0 \end{bmatrix}$ B) $\begin{bmatrix} 4 & 0 \\ 4 & 0 \end{bmatrix}$ C) $\begin{bmatrix} 0 & 4 \\ 0 & 4 \end{bmatrix}$ D) $\begin{bmatrix} 4 & 0 \\ 0 & 4 \end{bmatrix}$

Q.7) If A be square matrix of order 3×3 and k scalar, then $|kA|$ is equal to....

- A) $k|A|$ B) $|k||A|$ C) $k^3|A|$ D) None Of these

Q.8) The maximum number of equivalence relations on the set $A = \{1,2,3\}$ are...

- A) 1 B) 2 C) 3 D) 5

Q.9) The maximum value of $z = 3x + 4y$ subjected to constraints $x + y \leq 4$, $x \geq 0$ and $y \geq 0$

- A) 12 B) 14 C) 16 D) 18

Q.10) $\int_0^2 x^2 dx = \dots$

- A) 2 B) $\frac{2}{3}$ C) $\frac{8}{3}$ D) $\frac{8}{9}$

