Year	Particulars
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	Diagnostic Test
	Marksheet
2023-24	List of Slow and Advanced Learners
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	Time-Table
	Syllabus
	Attendance Record



Report

Department of Mathematics runs the Remedial Coaching to help the students who are on the verge of failure or lagging behind in Mathematics (slow learners). Taking in to account the common mistakes committed by the students, the department prepares a syllabus that is run for 30 periods. It has resulted in the better performance of the students in the examination.

The details of the student's enrollment are as follows:

Sr. No.	Year	No. of Beneficiary
1	2023-24	17

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



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Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon Department of Mathematics

Notice

Date - 19/08/2023

The Students of B.Sc.I are here by inform that the department of Mathematics is going to conduct Remedial Coaching, for this coaching department will conduct a Diagnostic Test scheduled on 23/08/2023. All the students should present at the lecture hall.



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

Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon Department of Mathematics Diagnostic Test (2023-24)

Date: 23/08/2023 Time: 1.44 p.m. to 2.32p.m. Name of the Student:

Total Marks: 50 Student Signature:

Q. Choose the correct alternative of the following : 1) If $A = \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}$ and $A^2 = kA$ then k equals to ...

(a) 0(b) 1 c) 2 (d) None 2) Find the domain $y = \sqrt{\frac{x-1}{3+x}}$ (a) $x \in [-3, 1]$ (b) $x \in (-3, 1]$ (c) $x \in [-\infty, -3] \cup [1,\infty)$ (d) $x \in (-\infty, -3) \cup [1,\infty)$ 3)The value of expression $2\sec^{-1}2 + \sin^{-1}\frac{1}{2}$ is... (b) $\frac{5\pi}{6}$ (c) $\frac{7\pi}{6}$ (d) $\frac{3\pi}{5}$ (a) $\frac{\pi}{6}$ 4) Differentiate sin(ax+b) with respect to x. (b) asin(ax + b) (c) bcos(ax + b) (d) bsin(ax + b)(a) acos(ax + b)5) The value of integral $\int (e^x + 1) dx$ is (a) e^x (b) $e^{x} + x + c$ (c) $e^{x}+c$ (d) $e^{x} + x$ 6) Order of the differential equation $\left(\frac{d^2y}{dx^2}\right)^3 + \left(\frac{dy}{dx}\right)^2 + 1 = 0$ (a) 3 (b) 2(c) 1 (d) Not defined 7) Solution of differential equation $e^{y-x} \frac{dy}{dx} = 1$ is (b) $e^{y} + e^{x} = c$ (c) $e^{y} = e^{x} c$ (a) $e^{y} = e^{x} + c$ (d) none 8) If x = 4t, y = $\frac{4}{t}$ then $\frac{dy}{dx}$ is (b) $\frac{1}{t}$ (c) $-\frac{1}{t^3}$ (d) $\frac{1}{t^4}$ (a) $-\frac{1}{t^2}$ 9) Equation of x-axis is (a) $\frac{x-0}{1} = \frac{y-0}{0} = \frac{z-0}{0}$ (b) $\frac{x-0}{0} = \frac{y-0}{1} = \frac{z-0}{0}$ (c) $\frac{x-0}{0} = \frac{y-0}{1} = \frac{z-0}{1}$ (d) $\frac{x}{1} = \frac{y}{1} = \frac{z}{1}$ 10) Find $\frac{\partial y}{\partial x}$, if y=sin⁻¹(\sqrt{x}) (a) $\frac{1}{\sqrt{x-x^2}}$ (b) $\frac{1}{\sqrt{x+x^2}}$ (c) $\frac{1}{2\sqrt{x-x^2}}$ (d) $\frac{1}{2\sqrt{x+x^2}}$ 11) What is the degree of differential equation $(y'')^2 + (y')^3 + (y')^4 + y^5 = 0$? (a) 2 (b)3 (c) 4 (d) 5

12) Which of the following form of the equation is of the type homogeneous differential equations.



(a) $f(D) = 0$	(b) f (D) $y = 0$	(c) $f(D) = X$	(d) $f(D) y = X$
13) The conve	rse of the contra	positive of ~p	$o \rightarrow q$	
(a) $q \rightarrow p$	(b) $\sim q \rightarrow q$	p (c) p	$d \rightarrow \sim q$ (d) $\sim q$	$\rightarrow \sim p$
14) A function	f(x) is said to b	e continuous a	at $x = a$, if	
(a) $\lim_{x \to a} f(x) \neq f(a)$	c) exists (b) f(a	a) exists (c)	$\lim_{x\to a} f(x) = f(a)$	(d) $\lim_{x\to a} f(x)$
15)A continuo	us function defi	ned on a close	d interval is	
(a) uniformly o	continuous		(b) unbounded	
(b) necessary a	and sufficient		(d) none of these	
16)What is the	roots of differe	ntial equation	y'' + 5y' + 6 = 0	
(a) 2, -3	(b) 2, 3	(c) -2, 3	3 (d) -2, -3	
17)The expans	ion of e ^x is			
(a) $1 + x + \frac{x^2}{2!}$	$+\frac{x^3}{3!}+\ldots$	(b) 1	$- x + \frac{x^2}{2!} - \frac{x^3}{3!} + \dots$	
(b) $x + \frac{x^2}{2!} + \frac{x^3}{3!}$	-+	(d) 1	$+x+x^2+x^3+\ldots$	
18) Integrate tl	he function(x se	c^2x) with resp	peer to x	
(a) $x \cos x + \log x$	g sec x +c	(b) x s	$\sin x + \log \cot x + c$	
(c) x tan x + \log	g cos x +c	(d) x c	$\cot x + \log \sin x + c$	
19) A mean of	'n' natural num	ber is		
(a) $\frac{n(n+1)}{2}$	(b) $\frac{n}{2}$	(c) $\frac{(n+1)}{2}$	$(d)\frac{2n(n+1)}{2}$	
20) If A is Sing	gular matrix, the	en		
(a) $ \mathbf{A} \neq 0$	(b) $ A \neq 1$	(c) $ A = 0$	(d) $ A = 0$	
21) Region rep	presented by $x \leq$	$\leq 0, y \geq 0$ is		
(a) First quadra	ant	(b) Second	nd quadrant	
(b) Third quad	rant	(d) Four	th quadrant	
22) Given that then P(E F)		vents such that	P(E) = 0.6, P(F) = 0	.3 and $P(E \cap F) = 0.2$,
(a) 2/3	(b) 1/3	(c) 3/4	(d) 1/4	
23) If the orde matrix?	er of the matrix	x is m×n, the	n how many elements	s will there be in the
(a) mn	(b) $m^2 n^2$	(c) mn^2	(d) 2mn	
24) sec $(\frac{\pi}{3}) =$				
5	(b) 2	(c) $\frac{1}{2}$	(d) -1	
25) $\int_0^2 (x^2 + 3)$)dx equals			
(a) 24/3	(b) 25/3	(c) 26/3	(d) none of these	



Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon Department of Mathematics

Answer Key

Que. No.	Answer	Que. No.	Answer
1	С	14	с
2	d	15	a
3	b	16	d
4	a	17	а
5	b	18	с
6	b	19	с
7	a	20	d
8	a	21	b
9	a	22	а
10	С	23	а
11	a	24	b
12	b	25	а
13	С		



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Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon Department of Mathematics Diagnostic Test (2023-24)

Sr. No.	Roll no.	Marks
1	20233001	26
2	20233002	26
3	20233003	16
4	20233004	28
5	20233005	34
6	20233006	28
7	20233007	18
8	20233008	30
9	20233009	30
10	20233010	12
11	20233011	10
12	20233012	22
13	20233013	30
14	20233014	28
15	20233015	26
16	20233016	36
17	20233054	34
18	20233055	26

Mark-sheet

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Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon Department of Mathematics Class: B.Sc.I Advance Learner

Sr. No. Roll no. Marks



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Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon Department of Mathematics Class: B.Sc.I Slow Learner

Sr. No.	Roll no.	Marks
1	20233003	16
2	20233007	18
3	20233010	12
4	20233011	10
5	20233012	22



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

Notice

Date: 01/09/2023

The Students of B.Sc. I, II, III are here by inform that the department of Mathematics is going to conduct Remedial Coaching from 05/09/2023 the syllabus and schedule is displayed on the notice board .



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

Time-Table

w.e.f. 5st Sept., 2023

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9.10a.m. to 10.00a.m.			B.Sc.II (SAS)			
10.30a.m. to 11.20a.m.		B.Sc.I (PSR)				
11.20am to 12.10pm	B.Sc.III (CAK)		B.Sc.III (SAS)			

Mrs. Salunkhe A.S.	-	SAS
Miss. Chinake A.K.	-	CAK
Miss. Pawar S.R.	-	PSR

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Class: B.Sc. I (Mathematics)

Syllabus

- Unit I: Limits, Continuity and its properties, Evaluation of limit, Examples of limits, Continuous functions and its properties, Discontinuous functions and its types.
- Unit II: Roll's mean value theorem, Lagrange's Mean value theorem, Examples, Cauchy's Mean Value theorem, Successive Differentiation.
- Unit III: Ordinary differential equations of first order and first degree, Exact diff. equations, Examples, Orthogonal trajectories to Cartesian and polar curves with examples.
- Unit IV: Linear differential equations with constants coefficients, Examples on different types of complementary function, Particular integral.

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EGE

Class: B.Sc. II (Mathematics)

Syllabus

- Unit I: Homogeneous linear differential equation, Examples, Legendre's linear differential equation, Examples, Second order differential equations
- Unit II: Ordinary Simultaneous linear differential equations, Methods of solving Simultaneous linear differential equations, Example,
- Unit III: Bisection method, Method of false position, Newton-Raphson method, Examples.
- Unit IV: Solution by Taylor's series method, Picard's method of successive approximation, Euler's method, Runga-Kutta method, Examples.

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FGE

Class: B.Sc. III (Mathematics)

Syllabus

- Unit I: Improper integral and Fourier series, Convergence tests, Absolute and Conditional Convergence, Half Range Fourier series, Half range sine and cosine series, Examples.
- Unit II: Group S₃, Dihedral group D₄, Commutor subgroup and its properties, Homomorphism and Imbedding of rings.
- Unit III: Formulation of LPP, Graphical method of LPP, Vogel's Approximation method, MODI method, Examples.
- Unit IV: Laplace Transform Existence theorem, 1st and 2nd Shifting Theorems, Standard functions and Examples, Fourier transform, Inverse fourier transform.

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





List of Students

Sr. No.	Roll no.	Name of the students	
1	20233003	Bhosale Raj Dattatray	
2	20233007	Ghadge Rushikesh Dilip	
3	20233010	Jadhav Archana Ashok	
4	20233011	Jadhav Arpita Ashok	
5	20233012	Jadhav Ganesh Shataram	



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

Class: B.Sc. II

List of Students

Sr. No.	Roll No.	Name of the students
1	20233101	Barge Shubham Sudhir
2	20233102	Bhosale Ravina Ananda
3	20233103	Chavan Nitin Rajaram
4	20233107	Jadhav Dip Pandurang
5	20233111	Jagadale Pratik Balkrishna
6	20233115	Kadam Vaishnavi Shankar
7	20233120	Pawar Aditya Yuvraj
8	20233122	Shinde Atharv Yogesh
9	20233123	Shinde Kranti Maloji
10	20233124	Tate Pratik Arun



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Class: B.Sc. III

List of Students

Sr. No.	Roll No.	Name of the students
1	22233201	Bhosale Devaki Balkrishna
2	22233202	Kshirsagar Kalyani Sanjay



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Class: B.Sc. I

Sr. No.	Roll No.	Name of the students	5 9 23	12 9 23	20/3/23	10/10/23	17/10/23	5/12/23
1	20233003	Bhosale Raj Dattatray	R.D. Bhaselp		R.D. Bhosalp		R.D. Bbuche	R.D. Bhosele
2	20233007	Ghadge Rushikesh Dilip		R. D. Grodg				R.D.Gradg
3	20233010	Jadhav Archana Ashok		-	Jadhav A.A		-	JadhavAF
4	20233011	Jadhav Arpita Ashok	Jadhav: A.B	the second s	Tadhav. A:A	and a second		JadhavA
5	20233012	Jadhav Ganesh Shataram	Fridhae	Gabday (Greethor		Findhau	Gadha



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

Rayat Shikshan Sanstha's P. Bhosnie College, Koregeo

D. P. Bhosale College, Koregaon

Department of Mathematics

Remedial Coaching (2023-24)

Class: B.Sc. I

Sr. No.	Roll No.	Name of the students	12/12/23	19/12/23	26/12/23	02/01/24	•9/01/24	16/01/24
1	20233003	Bhosale Raj Dattatray	R.D. Bhouse	R. DBhoude	R. a. Bhas ele		R.D. Bhandy	R.D.Bhajalo
2	20233007	Ghadge Rushikesh Dilip	R.D. Chady	P.D.Gnadg	P. P. Greida	R.D. Godg	R. P. Gnads	P.D.Grady
3	20233010	Jadhav Archana Ashok	Jadhav AA	Jadhov AA	Jaolhav.A.A	Jathon AA.		
4	20233011	Jadhav Arpita Ashok	Jadhav. AF	Jodhan A	Jadhani Af	-		
5	20233012	Jadhav Ganesh Shataram	-	Gidhar	Gadhav	Grahav	-	



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

Class: B.Sc. II Attendance

Sr. No.	Roll No.	Name of the students	06/09/23	13/09/23	27 9/23	4/10/23	11/10/23	6/12/23
1	20233101	Barge Shubham Sudhir	OPZ		Ofer	ales		Elect
2	20233102	Bhosale Ravina Ananda	Rencale	Berosale	Betoscile	Behoscik_	Bebacale	Pebcale
3	20233103	Chavan Nitin Rajaram	N. Achavian	N.Rohavan_		N.R. ohovan	N.A. chovan	N. R. chovan
4	20233107	Jadhav Dip Pandurang	o.p.Jadha		D.P.Judha	D.f. Jodha		O.P.Jadha
5	20233111	Jagadale Pratik Balkrishna	Propelele	Bagachle	-	Brgadale		Bogadale
6	20233115	Kadam Vaishnavi Shankar	Uladan.	Wadan.	Ustradam.	Skalon .	Weicher-	Wados.
7	20233120	Pawar Aditya Yuvraj	Seles-	Robert		Sult	Syles	Repell
8	20233122	Shinde Atharv Yogesh	Albino	A:Drinds	ABAirds	ABhinds	A Dhipt	ABhind
9	20233123	Shinde Kranti Maloji	Chindela	Ļ	Shinde. king	Shinde K.M		shind
10	20233124	Tate Pratik Arun	Robert	ale COLIE	PLA	Relet	Relet	

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Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Mathematics

Remedial Coaching (2023-24)

Class: B.Sc. II Attendance

Sr. No.	Roll No.	Name of the students	13/12/23	20/12/23	27/12/23	3/01/25	10/01/25	17/01/24
1	20233101	Barge Shubham Sudhir	Bran	Opt	ORT		elly	
2	20233102	Bhosale Ravina Ananda	Potoscile	Bhoscile	Altosak	- Behoscik	Rebosale	BBhosule
3	20233103	Chavan Nitin Rajaram	N.R. chavan		N.R. chavan	N. R chavon	N.A. chavan	N.R. chavan
4	20233107	Jadhav Dip Pandurang		O.P.Jadha		D.P.Jadhe		D.P.Jadha
5	20233111	Jagadale Pratik Balkrishna	Bagachile	2 (Bagadhle			
6	20233115	Kadam Vaishnavi Shankar	18Kadon.	Wedan :	Stadan.	Wadan.	Wadas.	Skaden.
7	20233120	Pawar Aditya Yuvraj	Ryful	Rylad.	Ryfleed	Rylew.	Rylul	Sylad
8	20233122	Shinde Atharv Yogesh	AShint	A Philod			ADhint	A: Phinds
9	20233123	Shinde Kranti Maloji	shinde kM	shinde K.M			Shinde KM	Shiple- K.M.
10	20233124	Tate Pratik Arun	Refet	Releta	Refer		Relela	feld



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Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Mathematics

Remedial Coaching (2023-24)

Class: B.Sc. III

Sr. No.	Roll No.	Name of the students	11/09/23	13 9 23	18/9/23	25/9/23	27 9 23	4/10/23
1	22233201	Bhosale Devaki Balkrishna	B	à		B	B	A
2	22233202	Kshirsagar Kalyani Sanjay	2 alyon	2 valyn'		2 Kalyon	22 algri	2×ay



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

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department of Mathematics

Remedial Coaching (2023-24)

Class: B.Sc. III

Sr. No.	Roll No.	Name of the students	3/10/23	11/10/23	16 10/23	04/12/23	13/12/23	18/12/23
1	22233201	Bhosale Devaki Balkrishna	<u>A</u>	A	DE	DB.	Ø.	
2	22233202	Kshirsagar Kalyani Sanjay	Zkalyen	Zalyen	2 Laly	2 calify-	2×alyni	Kalyer



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

Rayat Shikshan Sanstha's D. P. Bhosale College, Koregaon Department of Mathematics Remedial Coaching (2023-24) Class: B.Sc. III Attendance

Sr. No.	Roll No.	Name of the students	20/12/23	01/01/24	03/01/24	08/01/24	10/01/24	17/01/25
1	22233201	Bhosale Devaki Balkrishna	B	æ	Del.	<u>P</u>	el.	B
2	22233202	Kshirsagar Kalyani Sanjay	Ralyni		2 Kalyni	Zalyni	Zalyn	2 Latte



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

Sr. No.	Roll No.	Name of the students	22/01)24	5/02/24	12/02/24	19/02/25	21/02/24	26/02/24
1	22233201	Bhosale Devaki Balkrishna	B	R	Ø		E.	Ø
2	22233202	Kshirsa <mark>gar</mark> Kalyani Sanjay	Kellyn	Kalyon	Zalizon		Kalyon'	Scaly



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