

DEPARTMENT OF MATHEMATICS

INDEX CO-PO-PSO Attainment of B.Sc. III 2023-24

Sr.No.	Title	
1.	CO-PO-PSO Attainment Verification	
2.	POs and PSOs	
3.	Course Outcome of Courses	
4.	Articulation Matrix	
5.	Students Marklist	
6.	Students Feedback Form	



"Education for Knowledge, Science, and Culture"
- Shikshanmaharshi Dr. Bapuji Salunkhe
Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Empowered Autonomous)



DEPARTMENT OF MATHEMATICS

B.Sc. I/II/III

CO-PO-PSO Attainment verification 2023-24

CO attainment verification:

Sr. No.	Course Name	Course Code	CO Target	CO Attainment	Fully attained or not
1	Calculus, Algebra and Geometry	DSC-1003A	3	2	Satisfactorily attained
2	Multivariable Calculus and Ordinary Differential Equation	DSC-1003B	3	2	Satisfactorily attained
3	Number Theory and Integral Calculus	DSC-1003C	3	1	Not attained
4	Discrete Mathematics and Integral Transform	DSC-1003D	3	1.2	Not attained
5	Real Analysis	DSC-1003E1	3	0.2	Not attained
6	Modern Algebra	DSC-1003E2	3	0.2	Not attained
7	Matrix Algebra	DSC-1003E3	3	1.2	Not attained
8	Numerical Methods I	DSC-1003E4	3	2	Satisfactorily attained
9	Metric Spaces	DSC-1003F1	3	1.2	Not attained
10	Linear Algebra	DSC 1003F2	3	2.8	Fully attained
11	Complex Analysis	DSC-1003F3	3	1.2	Not attained
12	Numerical Methods II	DSC-1003F4	3	1.2	Not attained



Mr. S. P. Thorat. HEAD

DEPARTMENT OF MATHEMATICS VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

PO verification:

PO	Attainment	Level
PO1	1.354	Average
PO2	1.338	Average
PO3	1.314	Average
PO4	1.378	Average
PO5	1.354	Average
PO6	1.326 .	Average
PO7	1.383	Average

PSO verification:

PSO	Attainment	Level
PSO1	1.383	Average
PSO2	1.350	Average
PSO3	1.295	Average
PSO4	1.379	Average
PSO5	1.327	Average

ESTD JUNE 1964

Inhorn (S.P. THORAT)

HEAD
DEPARTMENT OF MATHEMATICS
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Mathematics CO/PO/PSO attainment calculation B.Sc. I/II/III

(Year 2023-2024)

PO'S

- PO1 Knowledge of Disciplines: Demonstrate the fundamental practical and theoretical understanding and conceptual knowledge of all the disciplines in physical sciences prescribed.
- PO2 Problem solving skills: Think and evaluate critically, analyze complex situations and provide solutions to problems using scientific methodology; thuse relating the acquired knowledge to day to-day life.
- PO3 Research aptitude: Cultivate a liking for research; and apply the related skills and scientific temper in order to carry out research work that benefits the surrounding community and industry.
- PO4 Professional and soft skills: Function independently and collaboratively to achieve the work-place goals through successful relations and mannerisms.
- PO5 Environment and Sustainability: Possess empathetic awareness towards environment and focus on sustainable social development while conducting research and scientific studies.
- PO6 Cultural ethics: Act in ethically righteous manner in planning, conducting and communicating the research and always keep in mind the cultural ethos of our society.
- PO7 Citizenship: Perform their roles as cultured and civilized citizens possessing human values, creativity, positivity and engaged in nation-building

PSO'S

PSO1: Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

PSO2: Adopt changing scientific environment in the process of sustainable development by using mathematical tools

PSO3: Have necessary skills and expertise in the field of research and developments through seminar, field project and on job training.

PSO4: A student be able to apply their skills and knowledge, that is, translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or technique in order to process the information and draw the relevant conclusion

PSO5: Adapt to and keep pace with emerging technologies in the field of Mathematics, demonstrating an understanding of their applications, limitations, and implications

Course I: Calculus, Algebra and Geometry (DSC-1003A)

CO1: Calculate the limit and examine the continuity of a function at a point.

CO2: Understand the consequences of various mean value theorems for differentiable functions.

Course I: Calculus, Algebra and Geometry (DSC -1003A)

CO1: Calculate the limit and examine the continuity of a function at a point.

CO2: Understand the consequences of various mean value theorems for differentiable functions.

CO3: Sketch curves in Cartesian and polar coordinate systems.

CO4: Calculate the radius of curvature of circle in parametric and cartesian form

CO5: Familiarize with relations, equivalence relations and partitions.

CO6: Employ De Moivre's theorem in a number of applications to solve numerical problems.

CO7: Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank.

CO8: Understand various equation form of sphere.

Course II: Multivariable Calculus & Ordinary Differential equations (DSC -1003B)

CO1: Learn conceptual variations while advancing from one variable to several variables in calculus.

CO2: Apply multivariable calculus in optimization problems.

CO3: Applications of multivariable calculus tools in physics, economics, optimization, and understanding the architecture of curves and surfaces in plane and space etc.

CO4: Calculate extreme value of function of two variable by various method.

CO5: Learn various techniques of getting exact solutions of solvable first order differential equations and linear differential equations of higher order.

CO6: Know Picard's method of obtaining successive approximations of solutions of first order differential equations, passing through a given point in the plane and Power series method for higher order linear equations.

CO7: Formulate mathematical models in the form of ordinary differential equations to suggest solutions of the day to day problems arising in physical, chemical & biological disciplines.

CO8: Learn various technique of solving Clairaut's equation.

Course III: Number Theory and Integral Calculus (DSC-1003C)

CO1: Use mathematical induction and understand the logic and methods behind the major proofs in Number Theory.

CO2: Describe the method of solving the linear Diophantine equation

CO3: Determine GCD and LCM by using the Euclidean algorithm.

CO4: Understand the definition of congruence and be familiar with number theoretic functions

CO5: Acquire the information about beta, gamma function and evaluate it in various problems

CO6: Apply Leibnitz rule for differential under integral sign

CO7: Learn definition of Fourier Series, Odd and Even Functions, Half range series.

CO8: Use the knowledge of double and triple integrals for finding area and volume

Course IV: Discrete Mathematics and Integral Transform (DSC-1003D)

CO1: Understand Recurrence Relation, Generating functions and solving problems involving recurrence equations.

CO2: Understand basic concept of graph theory to apply in various fields.

CO3: Formulate Recurrence Relations to solve problems involving an unknown sequence.

CO4: Familiarize with the types of graphs, types of paths and their properties

CO5: recognize the different methods of finding Laplace transforms and Fourier transforms of different functions.

CO6: explain the applications and the usefulness of these special functions.

CO7: Determine Fourier transform, Relation between Laplace and Fourier Transform.

cos: apply the knowledge of Laplace transforms, Fourier transforms and Finite Fourier transforms in finding the solutions of differential equations

Course V: Real Analysis (DSC-1003E1)

CO1: Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.

CO2: Use the ratio, root, alternating series and limit comparison tests for convergence and absolute convergence of an infinite series of real numbers.

CO3: Understand some of the families and properties of Riemann integrable functions, and the applications of the fundamental theorems of integration.

CO4: Solve Riemann integral and improper integral

Course VI: Modern Algebra (DSC-1003E2)

CO1: Recognize the mathematical objects that are groups, and classify them as abelian, cyclic and permutation groups, etc.

CO2: Explain the significance of the notion of cosets, normal subgroups, and factor groups

CO3: The fundamental concept of Rings, Fields, subrings, integral domains and the corresponding Homorphisms

CO4: Apply fundamental theorem, Isomorphism theorems of groups to prove these theorems for Ring.

Course VII: Matrix Algebra (DSC-1003E3)

CO1: Understand the concept of formation of partial differential equation.

CO2: Understand the classification of partial differential equations.

CO3: Understand the Geometrical meaning of partial differential equation and method of solutions.

CO4: Understand transformation equations and its applications.

Course VIII: Numerical Methods I (DSC-1003E4)

CO1: Learn about various interpolating methods to find numerical solutions.

CO2: Demonstrate the use of interpolation methods to find intermediate values in given graphical and/or tabulated data.

CO3: Use of numerical differentiation and integration

CO4: Learn to find the solution of ordinary differential equation by Euler, Taylor and Runge-Kutta methods

Course IX: Metric Spaces (DSC-1003F1)

CO1: Acquire the knowledge of notion of metric space, open sets and closed sets.

CO2: Demonstrate the properties of continuous functions on metric spaces

CO3: Apply the notion of metric space to continuous functions on metric spaces.

CO4: Understand the basic concepts of connectedness, completeness and compactness of metric spaces

Course X: Linear Algebra (DSC-1003F2)

CO1: Understand the concepts of vector spaces, subspaces, bases, dimension and their properties.

CO2: Learn properties of inner product spaces and determine orthogonality in inner product spaces.

CO3: Learn basic concepts of linear transformation, dimension theorem, matrix representation of a linear transformation, and the change of coordinate matrix.

CO4: Familiarize characteristic roots and characteristic vectors.

Course XI: Complex Analysis (DSC-1003F3)

CO1: Understand the significance of differentiability of complex functions leading to the understanding of Cauchy-Riemann equations.

CO2: Understand the exponential function, Logarithmic function, Trigonometric function.

CO3: apply Cauchy integral formula to evaluate integrals.

CO4: Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem.

Course XII: Optimization Techniques (DSC-1003F4)

CO1: Analyse and solve linear programming models of real life situations.

CO2: Formulate and apply suitable methods to solve problems.

CO3: Identify and select procedures for various sequencing, assignment, transportation problems.

CO4: Model competitive real-world phenomena using concepts from game theory and analyse pure and mixed strategy games.

Articulation Matrix for

Course I:(DSC -1003A)

Outcome	PO	PO2	PO3	PO	PO	PO	PO7	PSO	PSO	PSO	PSO	PSO
S	1			4	5	6		1	2	3	4	5
CO1	3	3	2	1	1	1	1	2	1	2	3	1
CO2	4	4	2	1	1	1	1	3	1	1	2	1
CO3	4	4	1	1	1	1	2	2.	1	1	3	1
CO4	3	4	2	1	1	1	1	1	1	2	3	1
CO5	3	3	1	2	1	1	1	3	1	1	3	1
CO6	3	3	1	1	1	1	1	3	1	1	2	1
CO7	4	3	1	1	1	1	1	1	1	2	2	1
CO8	4	3	1	2	1	1	1	1	1	1	3	1
Average	3.5	3.37 5	1.37 5	1.2 5	1	1	1.12	2	1	1.37	2.62	1

Course II:(DSC -1003B)

Outcome	PO1	PO	PO	PO	PO	PO6	PO	PSO	PSO	PSO	PSO	PSO
S		2	3	4	5		7	1.	2	3	4	5
CO1	3	4	2	2	1	1	1	2	1	2	2	1
CO2	4	3	2	1	1	2	2	3	1	2	3	1
CO3	4	4	1	1	1	1	2	3	1	2	3	1
CO4	3	3	1	1	1	1	1	2	1	2	2	1
CO5	4	4	2	2	1	1	1	2	1	1	3	1
CO6	3	3	2	1	1	1	1	3	1	2 .	3	1
CO7	3 ·	4	2	1	1	1	1	1	1	1	2	1
CO8	3	3	2	1	1	1	1	1	1	1	2	1
Average	3.37 5	3.5	1.7 5	1.2	1	1.12 5	1.2	2.12	1	1.62	2.5	1

Course III:(DSC -1003C)

Outcome	PO1	PO2	PO	PO	PO	PO	PO7	PSO	PSO	PSO	PSO	PSO
S			3	4	5	6		1.	2	3	4	5
CO1	3	3	2	1	1	1	2	2	1	1	2	1
CO2	4	4	1	2	1	1	1	3	1	1	2	1
CO3	4	4	1	1	1	1	1	2	1	1	2	1
CO4	4	4	1	1	1	1	1	3	1	1	1	1
CO5	4	3	1	1	1	1	1	1	1	1	2	1
CO6	4	3	2	1	1	1	1	1	1	1	1	1
CO7	3 .	3	2	2	1	1	1	1	1	1	2	1
CO8	3	3	2	1	1	1	1	1	1	1	2	1
Average	3.62	3.37		1.2			1.12	-	1	1	4	1
Ü	5	5	1.5	5	1	1	5	1.75	1	1	1.75	1

Course IV:(DSC -1003D)

Outcome	PO1	PO	PO3	PO4	PO	PO	PO	PSO	PSO	PSO	PSO	PSO
S		2			5	6	7	1	2	3	4	5
CO1	3	4	2	2	1	1	2	3	1	1	2	1
CO2	3	4	2	1	1	1	2	2	1	1	2	1
CO3	4	4	3	1	1	1	1	2	1	1	1	1
CO4	3	4	3	1	1	1	1	2	1	1	1	1
CO5	4 .	3	2	1	1	1	1	1	1	1	2	1
CO6	4	3	2	1	1	1	1	1	1	1	2	1
CO7	4	3	2	1	1	1	1	1	1	1	1	1
CO8	4	3	3	1	1	1	1	1	1	1	2	1
Average	3.62 5	3.5	2.37	1.12 5	1	1	1.2	1.62	1	1	1.62	1

Course V:(DSC -1003E1)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO
S	1	2	3	4	5	6	7	1	2	3	4	5
CO1	4	3	3	2	1	1	1	2	1	3	2	1
CO2	4	3	2	1	1	2	1	2	1	1	3	1
CO3	3	3	3	2	1	1	1	2	1	2	1	1
CO4	4	3	2	1	1	1	1	1	1	1	1	1
Average	3.75	3	2.5	1.5	1	1.25	1	1.75	1	1.75	1.75	15

Course VI:(DSC -1003E2)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO
S	1	2	3	4	5	6	7	1	2	3	4	5
CO1	3	4	3	2	1	1	1	2	1	1	2	2
CO2	4	4	2	1	1	1	1	1	1	1	2	1
CO3	4	4	2	1	1	1	1	1	1	2	2	1
CO4	3	3	2	1	1	1	1	2	1	2	1	1
Average	3.5	3.75	2.25	1.25	1	1	1	1.5	1	1.5	1.75	1.25

Course VII:(DSC -1003E3)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO
S	1	2	3	4	5	6	7	1.	2	3	4	5
CO1	3	4	3	1	1	1	1	3	1	1	2	1
CO2	3	4	2	1	1	1	1	2	1	1	1	1
CO3	4	4	3	1	1	1	1	2	1	1	2	1
CO4	4	4	2	2	1	1	1	3	1	1	2	1
Average	3.5	4	2.5	1.25	1	1	1	2.5	1	1	1.75	1

Course VIII:(DSC -1003E4)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO
S	1	2	3	4	5	6	7	1	2	3	4	5
CO1	3	3	3	2	1	1	1	2	1	1	2	1
CO2	4	3	3	2	2	1	1	3 .	1	1	1	1
CO3	4	3	2	1	1	1	1 .	2	1	1	1	1
CO4	4	3	2	1	1	1	1	2	1	1	2	1
Average	3.75	3	2.5	1.5	1.25	1	1	2.25	1	1	1.5	1

Course IX:(DSC -1003F1)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	DCO
S	1	2	3	4	5	6	7	1	2	3	4	PSO
CO1	3	4	3	2	2	1	1	2	1	1	2	2
CO2	3	4	3	1	1	2	1	3	1	1	1	1
CO3	4	4	2	1	1	1	1	2 .	1	1	2	1
CO4	4	3	3	1	1	1	1	2	1	1	2	1
Average	3.5	3.75	2.75	1.25	1.25	1.25	1	2.25	1	1	1.75	1

Course X:(DSC -1003F2)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	DCO
s ·	1	2	3	4	5	6	7	1	2	3	4	PSO 5
CO1	3	4	2	2	1	1	1	3	1	1	1	1
CO2	4	3	2	2	1	1	1	2	1	1	2	1
CO3	4	3	3	2	1	1	1	1	1	1	2	1
CO4	4	3	2	1	1	1	2	1	1	1	1	1
Average	3.75	3.25	2.25	1.75	1	1	1.25	1.75	1	1	1.5	1

Course XI:(DSC -1003F3)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	DCO	DCO	DCO	DCC
S	1	2	3	4	5	6	7	1	PSO	PSO	PSO	PSO
CO1	4	3	3	1	1	1	1	3	1	1	4	5
CO2	3	3	2	2	2	1	1	2	1	1	1	1
CO3	3	3	3	2	1	2	2	1	1	1	2	1
CO4 .	3	4	2	2	1	1	1	2	1	1	1	1
Average	3.25	3.25	2.5	1.75	1.25	1.25	1.25	2	1	1	1.5	1

Course XII:(DSC -1003F4)

Outcome	PO	PO	PO	PO	PO	PO	PO	PSO	PSO	PSO	PSO	PSO
S	1	2	3	4	5	6	7	1 .	2	3	4	5
CO1	4	3	3	1	1	1	1	2	1	1	2	1
CO2	3	4	3	1	1	1	1	1	1	1	1	1
CO3	3	4	2	1	1	1	1	2	1	1	2	1
CO4	3	4	2	2	1	1	1	1	1	1	1	1
Average	3.25	3.75	2.5	1.25	1	1	1	1.5	1	1	1.5	1

Year 2023-2024

DSC1003F2 DSC1003F3				SEMI	11	SEM II	Sem III		SEM IV	Sem V	^						S	Sem VI						
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Feed Back Form Questions

- Q1. How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?
- Q2. How do you rate the usefulness of the units in the syllabus relevant to the course?
- Q3. How do you rate the weightage of the credits to the courses
- Q4. How do you rate the offering of electives in terms of their quality to the specialization stream?
- Q5. How do you rate the electives offered in relation to technological advancements?
- Q6. Rate the size of the syllabus in terms of the load of the students.
- Q7. Rate the courses in terms of self-learning considering the design of the courses.
- Q8. How do you rate the evaluation scheme designed for each of the courses?
- Q9. How do you rate the objectives stated for each of the course?
- Q10. How do you rate the percentage of the courses having lab components

B.Sc.I (DSC -1003A): Calculus, Algebra and Geometry

_		Q1	Q2	Q3	Q4 · *	Q5	Q6	Q7	Q8	Q9	Q10
1	8300	4	5	5	5	4	5	4	4	4	4
2	8291	3	5	3	5	3	5	5	3	5	3
3	8289	5	5	5	5	5	5	5	5	5	5
4	8297	5	5	5	5	4	5	5	4	3	4
5	8302	5	5	5	5	4	5	5	5	5	5
6	8292	5	5	4	4	5	5	5	5	4	5
7	8298	5	4	4	5	5	4	5	4	5	5
8	8290	5	5	4	4	5	5	5	4	3	5
9	8295	4	4	4	4	4	4	4	4	3	4
10	8293	5	4	4	4	4	5	5	5	5	5
11	8296	2	3	4	5,	4	. 3	4	5	2	
12	8301	4	3	5	3	4	2	4			4
13	8299	5	4	5	5	5	4		2	4	3
14	8294	5	5	5	4	4	4	4	5	5	5

c.I (DSC -1003B): Multivariable Calculus and Ordinary Differential equations

		Q1	Q2	Q3	Q4	Q5	06	07	00		
1	8297						Q6	Q7	Q8	Q9	Q10
1		4	4	5	5	5	5	4	4	3	3
2	8302	5	5	5	5	5	5	5	5	5	5
3	8291	5	5	5	5	5	5	5	5	5	5
4	8300	5	4	3	5	. 4	. 4	5	4	5	5
5	8292	5	5	5	5	5	5	5	5	5	5
6	8298	5	5	5	5	5	5	3	3	4	4
7	8290	5	3	5	3	5	3	5	3	5	3
8	8295	4	4	4	3	3	3	4	4	3	3
9	8294	. 5	4	3	3	5	4	5	4	3	4
10	8296	4	4	5	3	3	4	3			
11	8301	4	5	4	5	4	4	5	3	2	4
12	8299	5	4	3	5	4			5	5	4
13	8289	5	4	4	4		5	3	5	5	5
14	8294	5	4	5	5	4	5 4	5	5	5	3 5

B (DSC-1003C): Number Theory and Integral Calculus

_		Q1	Q2	Q3	Q4		Q 5	Q 6	Q 7	Q 8	Q 9	Q1 0
1	8302	5	5		5	5	5	5	5	5	5	5
2	8291	5	5		5	5	5	5	5	5	5	5
3	8300	4	5		4	5	5	4	5	4	4	5
4	8297	4	4		4	3	. 4	4	5	4	4	3
5	8292	5	5		5	5	5	5	5	5	5	5
6	8298	5	4		1	4	4	4	5	4	3	4
7	8290	5	3		5	3	5	3	5	3	5	3
8	8295	3	3	3	3	3	4	3	4	4	4	4
9	8296	3	4	3	3	5	2	4	2	3	2	3
10	8301	4	5		;	5	4	4	3	5	4	3
11	8290	5	4	5	;	3	4	3	4	3	4	4
12	8299	5	5	4		4	3	5	5	5	4	4
13	8293	5	3	4		4	3	2	4	4	3	5
14	8294	4	4	. 5		5	5	5	5	5	5	5

B.Sc.I (DSC-1003D): Discrete Mathematics and Integral I Transform

		Q1	Q2	Q3	Q4	Q5	Q 6	Q 7	Q 8	Q 9	Q1 0
1	8297	5	5	3	4	4	4	4	5	5	4
2	8291	5	4	4	5	5	4	5	5	4	4
3	8292	5	5	5	5	5	5	5	5	5	5
4	8300	5	4	4	5	4	4	4	4	5	5
5	8290	5	3	5	3	5	3	5	3	5	3
6	8295	3	4	4	4	3	3	3	3	3	4
7	8293	5	4	5	2	. 4	1	3	-1	3	5
8	8301	5	4	5	4	5	4	4	5	5	4
9	8299	5	4	5	4	5	4	3	5	4	4
10	8289	5	4	4	5	4	4	5	3	5	5
11	8298	5	5	4	5	4	4	4	4	4	3
12	8294	5	5	5	4	4	5	5	5	5	
13 _	8296	4	5	4	2	4	2	2	4	3	4
14	8302	5	5	5	5	4	5	5	5	5	5

B.Sc.III (DSE-1003E1): Real Analysis

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	8300	4	4	5	4	5	5	4	4	3	5
2 .	8297	4	5	4	4	4	5	4	5	4	4
3	8291	4	4	4	4	5	4	4	5	4	4
4	8292	5	5	5	5	5	5	5	5	5	5
5	8298	5	5	5	5	5	5	4	5	5	5
6	8290	5	3	5	3	5	3	5	3	5	3
7	8295	4	4	4	4	3	3	3	3	3	3
8	8299	5	4	5	5 ,	4	. 4	4	4	5	4
9	8293	5	4	5	3	4	3	4	3	2	2
10	8296	4	3	4	5	3	5	3	5	3	4
11	8301	5	4	5	5	4	4	4	5	4	5
12	8302	5	5	5	5	4	5	5	5	5	5
13	8289	5	4	4	5	5	4	4	4	5	3
14	8294	5	5	5	5	4	4	4	4	4	4

B.Sc.III (DSE-1003E2): Modern Algebra

		Q1	Q2	Q3	Q4-	Q5	Q6	Q7	Q8	Q9	Q10
1	8300	4	4	5	4	5	5	4	4	3	5
2	8297	4	5	4	4	4	5	4	5	4	4
3	8291	4	4	4	4	5	4	4	5	4	4
4	8292	5	5	5	5	5	5	5	5	5	5
5 .	8298	5	5	5	5	5	5	4	5	5	5
6	8290	5	3	5	3	5	3	5	3	5	3
7	8295	4	4	4	4	3	3	3	3	3	3
8	8299	5	4	5	5	4	4	4	4	5	4
9	8293	5	4	5	3	4	3	4	3	2	2
10	8296	4	3	4	5	3	5	3	5	3	4
11	8301	5	4	5	5	4.	4	4	5	4	5
12	8302	5	5	5	. 5	4	5	5	5	5	5
13	8289	5	4	4	5	5	4	4	4	5	3
14	8294	5	5	5	5	4	4	4	4	4	4

B.Sc.II (DSC 1003E3): Partial Differential Equation

		Q1	Q2	Q3	Q 4	Q 5	Q 6	Q 7	Q 8	Q 9	Q1 0
1	8302	5	5	5	5	5	5	5	5	5	5
2	8300	5	4	3	4	5	5	4	4	5	4
3	8291	5	4	4	5	4	5	4	5	4	5
4	8297	4	4	4	4	5	5	4	5	4	5
5	8292	5	5	5	5	5	5	5	5	5	5
6	8298	5	5	. 4	4	4	5	4	5	4	4
7	8290	5	3	5	3	5	5	3	5	3	5
8	8295	4	4	3	4	3	5	4	4	4	4
9	8299	5	5	4	5	5	5	4	5	4	5
10	8289	5	5	5	3	3	5	5	5	5	4
11 .	8293	4	3	3	5	4	5	2	3	2	4
12	8296	4	5	3	5	3	5	4	2	4	3
13	8301	5	4	5	5	4	4	5	4	5	5
14	8294	5	5	5	5	4	5	4	4	4	4

B.Sc.III (DSC 1003E4): Numerical Methods

		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	8302	5	5	5	5	5	5	5	5	5	210
2	8300	5	4	3	4	5	5	4	4	5	4
3	8291	5	4	4	5	4	5	4	5	4	5
4	8297	4	4	4	4	5	5	4	5	4	5
5	8292	5	5	5	5	5	5	5	5	5	5
6	8298	5	5	4	4	4	5	4	5	4	4
7	8290	5	3	5	3	5	5	3	5	3	5
8	8295	4	4	3	4	3	5	4	4	4	4
9	8299	5	5	4	5	5	5	4	5	4	5
10	8289	5	5	5	3	3-	5	5	5	5	4
11	8293	4	3	3	5	4	5	2	3	2	4
12	8296	4	5	3	5	3	5	4	2	4	3
.3	8301	5	4	5	5	4	4	5	4	5	5
4	8294	5	5	5	5	4	5	4	4	4	4

B.Sc.III (DSC-1003F1): Metric Space

_		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1_	8300	4	4	5	5	4	4	5	4	5	Q10
2	8302	5	5	5	5	5	5	5	5	5	5
3.	8291	5	4	4	5	4	4	5	4	5	
4	8297	5	4	4	4	4	5	4	4	5	4
5	8292	5	5	5	5	5	5	5	5	5	5
6	8298	5	5	4	5	4	5	5	4	4	
7	8290	5	3	5	3	5	3	5	3	5	4
8	8295	4	5	4	3	3	3	4	3		3
9	8299	5	4	4	4	4	• 5	4	4	3	4
10	8289	5	5	5	5	5	5			4	4
11	8293	4	3	5	2	4	3	4	4	4	4
12	8296	4	5	4	2			5	3	4	2
13	8301	5	4			4	4	2	4	4	2
4	8294	5	4	5	5	5 4	5	4	5 4	5	4

B.Sc.III (DSC-1003F2): Linear Algebra

_		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	8300	4	4	5	5	4	. 4	5	4	5	5
2	8302	5	5	5	5	5	5	5	5	5	5
3	8291	5	4	4	5	4	4	5	4	5	4
4	8297	5	4	4	4	4	5	4	4	5	4
5	8292	5	5	5	5	5	5	5	5	5	5
6	0298	5	5	4	5	4	5	5	4	4	4
7	8290	5	3	5	3	5	3	5	3	5	3
8	8295	4	5	4	3	3	3	4	3	3	4
9	8299	5	4	4	4	4	5	4	4	4	
10	8289	5	5	5	5	5	5	4	4	4	4
11	8293	4	3	5	2	4	3	5	3		4
12	8296	4	5	4	2	4	4	2		4	2
13	8301	5	4	5	4	5			4	4	2
14	8294	5	4	5	5	4	5	4	5 4	5	4 4

B.Sc.III (DSC-1003F3): Complex Analysis

_		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	00	010
1	8299	4	5	5	5	4	5	4	4	Q9	Q10
2	8290	3	5	3	5	3	5	5	-	4	4
3	8302	5	5	5	5	5	5		3	5	3
4	8300	5	5	5	5	4.	5	5	5	5	5
5	8292	5						5	4	3	4
			5	5	5	4	5	5	5	5	5
6	8298	5	5	4	4	5	5	5	5	4	5
7	8291	5	4	4	5	5	4	5	4	5	5
8	8297	5	5	4	4	5	5	5	4	5	5
9	8295	4	4	4	4	4	4	4	4		
10 .	8289	5	4	4	4	4	5	5		3	4
11	8293	2	3	4	5	4			5	5	5
12	8296	4	3	5			3	4	5	2	4
13	8301	5			3	4	2	4	2	4	3
	Times and the second		4	5	5	5	4	4	5	4	4
14	8294	5	5	5	4	4	4	4	5	5	5

B.Sc.III (DSC-1003F4): Optimization Technique

_		Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1_	8299	4	5	5	5	4	5	4	4	4	4
2 .	8290	3	5	3	5	3	5	5	3	5	3
3	8302	5	5	5	5	5	5	5	5	5	5
4	8300	5	5	5	5	4	5	5	4	3	4
5	8292	5	5	5	5	4	5	5	5	5	5
6	8298	5	5	4	4	5	5	5	5	4	5
7	8291	5	4	4	5	5	4	5	4	5	5
8	8297	5	5	4	. 4	. 5	5	5	4	5	5
9	8295	4	4	4	4	4	3	4	4	3	
10	8289	5	4	4	4	4	5	5	5		4
11	8293	2	3	4	5	4	3			5	5
12	8296	4	3	5	3	4		4	5	2	4
13	8301	5	4	5	5		2	4	2	4	3
14	8294	5	5	5	4	5	4	4	5	5	5