



Maratha VidyaPrasarak Samaj's
**Arts, Commerce and Science College,
Taharabad.**

Tal- Baglan, Dist-Nashik Pin Code: - 423302

Program Specific Outcomes & Program Outcomes

Academic year 2023-24





Maratha Vidya Prasarak Samaj's
Arts Commerce and science College, Taharabad
Tal. Baglan, Dist. Nashik

Department of Geography
2023-24

PROGRAM SPECIFIC OUTCOMES (PSOs)
FOR UNDERGRADUATE COURSES (Bachelor of Arts)

Program: B.A.	Program Specific Outcomes
Geography	PSO 1 Enables the students to grasp the knowledge of political ideals and social & political philosophy, fosters knowledge about constitutionalism.
	PSO 2 Understand the contribution of the main traditions of western political thinkers to political thought.
	PSO 3 Understand the important theories and issues of international relations
	PSO 4 Acquaint with the basic concepts, principles and dynamics of public administration
	PSO 5 Understand the basic concept and ideological orientations of political science discipline


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Principal
Maratha Vidya Prasarak Samaj's
Arts, Commerce & Science College
Taharabad Tal. Baglan Dist. Nashik

Maratha Vidya Prasarak Samaj's
Arts, Commerce and Science College, Taharabad

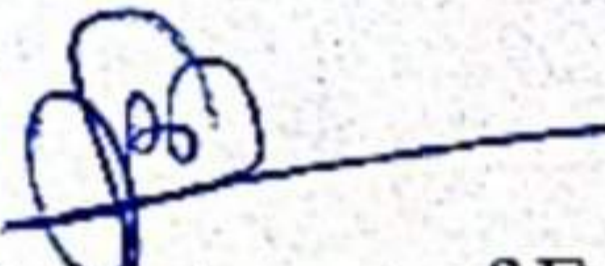
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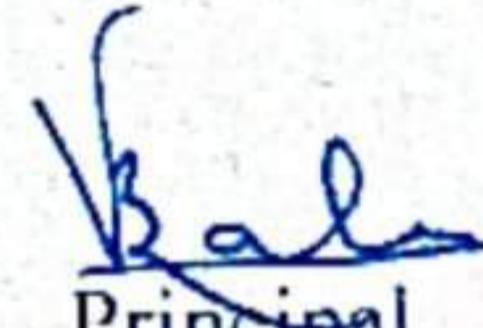
Academic Year 2023-24

Department of English

Program Outcomes

Programme	Program Outcomes
Bachelor of Arts degree (B.A) After completing the B.A degree, students are able to	PO1 Go for higher education such as M A , MBA, LLB. Journalism and Mass Communication
	PO2 Prepare for various Competitive Exams such as UPSC,MPSC, SSC, LIC, BANK, Railway Recruitment
	PO3 Prepare for NET SET Examinations
	PO 4 Go for professional education such as B. Ed., M.Ed., etc.
	PO 5 Apply for TKT (Teachers Knowledge Test)
	PO 6 Start Own Coaching Classes


Head, Department of English
Head
Department of English
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Department of Marathi 2023-24
PROGRAM SPECIFIC OUTCOMES (PSOs FOR
UNDERGRADUATE COURSES (Bachelor of Arts)

Program: B.A.	Program Specific Outcomes
Marathi	PSO 1 Understand various branches and movement of Marathi literature.
	PSO 2 Develop linguistic skills to meet the requirement in the age of globalization.
	PSO 3 Understand aspects of Biography and Autobiography.
	PSO 4 Develop ability for in depth study of literature.
	PSO 5 Understand the original development of Marathi language in the light of linguistic.
B.Com (FYBCom)	Develop linguistic skills to meet the requirement in the age of globalization. Develop ability for in depth study of literature.
SYBsc	Understand the original development of Marathi language in the light of linguistic.

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Department of Marathi
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Department Of Hindi 2023-2024


Program Outcomes

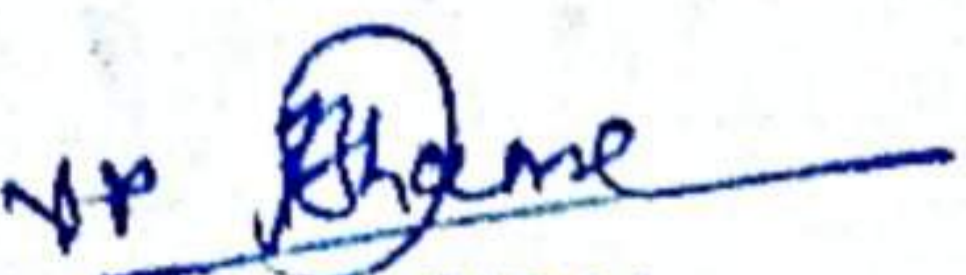
I. Program Outcome of Bachelor of Arts (B.A.)

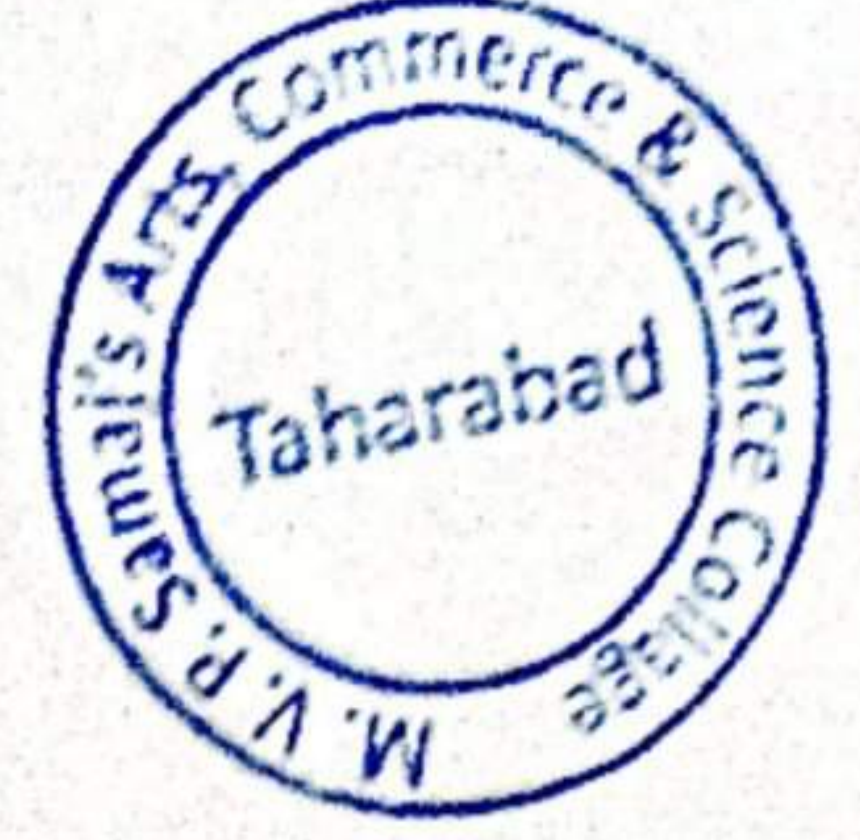
Student seeking admission for B.A. programme is expected to imbue with following quality which

helps them in their future life to achieve the expected Goals.

- a. Realization of human values.
- b. Sense of social service.
- c. Responsible and dutiful citizen.
- d. Critical temper
- e. Creative ability.


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Department Of Hindi 2023-2024

Program Specific Outcomes B.A. (Hindi)

On completion of B.A (Hindi), Students are able to:

1. To understand the basic concept and subject of Hindi & its origin
2. To make or not the importance of subject Hindi & its Branches.
3. To understand various aspect of Hindi literature with a process to reach method and giving new mode and direction.
4. To make a attempt in different area and theory such as vocabulary and vice versa
5. To understand in the Literature more in a border areas then Mary confined to subject.
6. To know about Hindi literature its roots cause perspectives and methods.
7. Elaborating and understanding its philosophical methods of Hindi Literature.
8. Evaluating the concept of Hindi from past to present and making the society more closely through literature.


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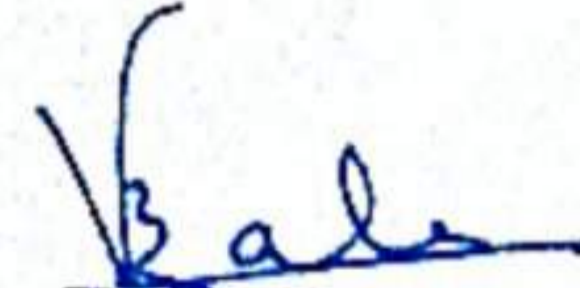
Department of English

PROGRAM SPECIFIC OUTCOMES (PSOs) FOR
UNDERGRADUATE COURSES (Bachelor of Arts)

Academic Year-2023-24

Program: B.A.	Program Specific Outcomes
English	PSO 1 Realize the importance of English as international language.
	PSO 2 Enhance the literary test of students and encourage them for creative writing
	PSO 3 Examine the basic problems encountered by students in communications skills
	PSO 4 Enrich the critical analysis and linguistic sensibility of the students


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(Maharashtra) 423301

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Department of Political Science- 2023-2024
PROGRAM SPECIFIC OUTCOMES (PSOs) FOR
UNDERGRADUATE COURSES (Bachelor of Arts)

Program: B.A.	Program Specific Outcomes
Political Science	PSO 1 Enables the students to grasp the knowledge of political ideals and social & political philosophy, fosters knowledge about constitutionalism.
	PSO 2 Understand the contribution of the main traditions of western political thinkers to political thought.
	PSO 3 Understand the important theories and issues of international relations
	PSO 4 Acquaint with the basic concepts, principles and dynamics of public administration
	PSO 5 Understand the basic concept and ideological orientations of political science discipline

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Dept. of Political Science

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Department of Political Science

Academic Year 2023-2024

Programme	Program Outcomes
Bachelor of Arts degree (B.A) After completing the B.A degree, students are able to	PO1 Go for higher education such as M A , MBA, LLB, Journalism and Mass Communication & MSW.
	PO2 Prepare for various Competitive Exams such as UPSC, MPSC, SSC, LIC, BANK, Railway Recruitment
	PO3 Prepare for NET SET Examinations
	PO 4 Go for professional education such as B. Ed., M.Ed., etc.
	PO 5 Apply for TKT (Teachers Knowledge Test)

HOD

Dept. of Political Science
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Department of Political Science
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Department of Zoology

Academic Year 2023-2024

Programme	Program Outcomes
Bachelor of Arts degree (B.Sc) After completing the B.A degree, students are able to	PO1 Go for higher education such as M.Sc , MBA, LLB, Journalism and Mass Communication & MSW.
	PO2 Prepare for various Competitive Exams such as UPSC,MPSC, SSC, LIC, BANK, Railway Recruitment
	PO3 Prepare for NET SET Examinations
	PO 4 Go for professional education such as B. Ed., M.Ed., etc.
	PO 5 Apply for TKT (Teachers Knowledge Test)


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Department of Mathematics

Academic Year 2023-2024

Programme	Program Outcomes
Bachelor of Science degree (B.Sc) After completing the B.Sc degree, students are able to	PO1: Go for higher education such as MSC , MBA, LLB, Scientist, Paper Publications.
	PO2 : Prepare for various Competitive Exams such as, UPSC, MPSC, Railway Recruitment
	PO3: Prepare for NET SET Examinations
	PO 4: Go for professional education such as B. Ed., M.Ed., etc. Students will become employable; they will Eligible for career opportunities In Industry .or will be able to opt for entrepreneurship.
	PO 5: Apply for TKT (Teachers Knowledge Test)

HOD Head
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Department of Mathematics

Academic Year 2023-2024

Department of Mathematics

**PROGRAM SPECIFIC OUTCOMES (PSOs) FOR
UNDERGRADUATE COURSES (Bachelor of Science)**

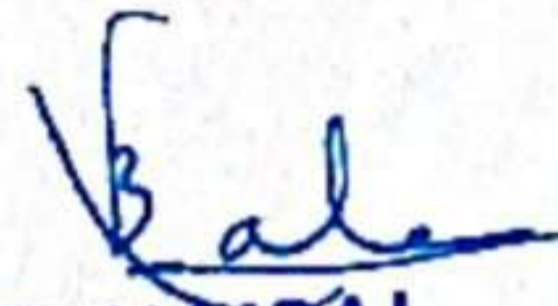
Program: B.Sc.	Program Specific Outcomes
MATHEMATICS	PSO 1 A Student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations ,terminology.
	PSO 2 A Student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.
	PSO 3 Student is equipped with mathematical modeling ability,problem solving skills,creative talent and power of communication necessary for various kinds of employment.
	PSO 4 Enabling Students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.
	PSO 5 Student should be able to apply their skills and knowledge that is Translate information presented verbally into mathematical

	<p>form, Select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.</p>
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Mrs. S.B. Deore

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Program Outcomes, Course specific Outcomes Outcomes

Department of Botany

FYBSC 2023-24

Program outcome : B.Sc. (Botany)	
1.	PO-1. Students know about different types of lower & higher plants their evolution in from algae to angiosperm & also their economic and ecological importance.
2.	PO-2. Cell biology gives knowledge about cell organelles & their functions
3.	PO-3. Molecular biology gives knowledge about chemical properties of nucleic acid and their role in living systems.
4.	PO-4. Genetics provides knowledge about laws of inheritance, various genetic interactions, chromosomal aberrations & multiple alleles.
5.	PO-5. Structural changes in chromosomes.
6.	PO-6. Student can describe morphological & reproductive characters of plant and also identified different plant families and classification.
7.	PO-7. They know economic importance of various plant products & artificial methods of plant propagation
8.	PO-8. Use modern Botanical techniques and decent equipments.
9.	PO-9. To inculcate the scientific temperament in the students and outside the scientific community
10.	PO-10 Industrial Botany: By studying this course students can apply this knowledge in various industries such as Mushroom cultivation, biofertilizer production, biopesticide, etc. They can also set up their own industries.

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Department of Chemistry
Academic Year 2023-2024
PROGRAM SPECIFIC OUTCOMES (PSOs) FOR
UNDERGRADUATE COURSES (Bachelor of Science)

Program: F.YB.Sc.	Program Specific Outcomes
Chemistry PSO1	1. Explain principle of CFT. 2. Apply crystal field theory to different type of complexes (Td, Oh, Sq. Pl complexes) 3. Explain: i) strong field and weak field ligand approach in Oh complexes ii) Magnetic properties of coordination compounds on the basis of weak and strong ligand field ligand concept. iii) Origin of colour of coordination complex.
PSO2	. 2 To identify Td and Sq. Pl complexes on the basis of magnetic properties / unpaired electrons. 6. Explain spectrochemical series, tetragonal distortion / Jahn-Teller effect in Cu(II) Oh complexes only.
PSO3	. Explain /Discuss important reactions of aldehydes and ketones. 5. To correlate reagent and reactions of aldehydes and ketones 6. Give synthesis of expected aldehydes and ketones. 7. Perform inter conversion of functional groups.
PSO4	Identify and draw the structures carboxylic acids and their derivatives from their names or from structure name can be assigned. 2. Explain / discuss synthesis of carboxylic acids and their derivatives. 3. Write / discuss the mechanism reactions carboxylic acids and their derivatives.

Head

Department of Chemistry,
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Department of Chemistry
Academic Year 2023-2024
PROGRAM SPECIFIC OUTCOMES (PSOs) FOR

UNDERGRADUATE COURSES (Bachelor of Science)

Program: F.YB.Sc.	Program Specific Outcomes
Chemistry PSO1	1. . Verify theoretical principles experimentally. 2. Interpret the experimental data on the basis of theoretical principles. 3. Correlate theory to experiments. Understand/verify theoretical principles by experiment observations; explain practical output / data with the help of theory. 4. Understand systematic methods of identification of substance by chemical methods. 5. Write balanced equation for the chemical reactions performed in the laboratory.
PSO2	Define the terms in phase equilibria such as- system, phase in system, components in system, degree of freedom, one / two component system, phase rule, etc. • Explain meaning and Types of equilibrium such as true or static, metastable and unstable equilibrium. • Discuss meaning of phase, component and degree of freedom. • Derive of phase rule
PSO3	Explain / discuss azeotropes, Lever rule, Henry's law and its application. • Discuss / explain solubility of partially miscible liquids- systems with upper critical. Solution temperature, lower critical solution temperature and having both UCST and LCST. • Explain / discuss concept of distribution of solute amongst pair of immiscible solvents.
PSO4	• Derive distribution law and its thermodynamic proof. • Apply solvent extraction to separate the components of from mixture interest. • Solve problem by applying theory


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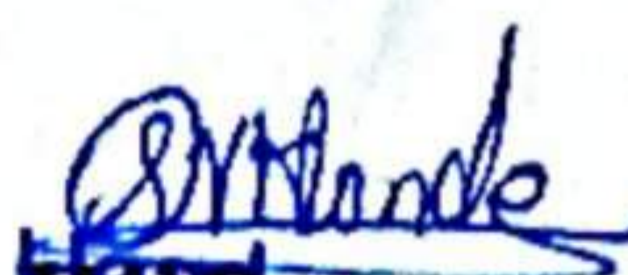
Department of Chemistry

Academic Year 2023-2024

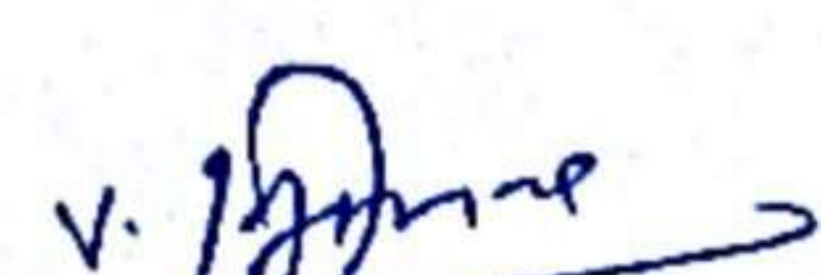
PROGRAM SPECIFIC OUTCOMES (PSOs) FOR

UNDERGRADUATE COURSES (Bachelor of Science)

Program: F.YB.Sc.	Program Specific Outcomes
Chemistry PSO1	1. To understand basic concept/principles of Physical, Analytical, Organic and Inorganic chemistry. 2. To impart practical skills and learn basics behind experiments. 3. To prepare background for advanced and applied studies in chemistry
PSO2	Explain / discuss the term energy of activation with the help of energy diagram. 6. Explanation for temperature coefficient and effect of temperature on rate constant k. 7. Derivation of Arrhenius equation and evaluation of energy of activation graphically. 8. Derivations of collision theory and transition state theory of bimolecular reaction and comparison. 9. Solve / discuss the problem based applying theory and equations.
PSO3	Classification of Adsorption Isotherms, to derive isotherms. • Explanation of adsorption results in the light of Langmuir adsorption isotherm, Freundlich's adsorption Isotherm and BET theory. • Apply adsorption process to real life problem. • Solve / discuss problems using theory
PSO4	Define, explain and compare meaning of accuracy and precision. • Apply the methods of expressing the errors in analysis from results. • Explain / discuss different terms related to errors in quantitative analysis. • Apply statistical methods to express his / her analytical results in laboratory. • Solve problems applying equations.


HEAD

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Department of Chemistry
Academic Year 2023-2024
PROGRAM SPECIFIC OUTCOMES (PSOs) FOR
UNDERGRADUATE COURSES (Bachelor of Science)

Program: B.Sc.	Program Specific Outcomes
Chemistry PSO1	1) History of polymers. 2) Difference between simple compounds and polymer. 3) Names of polymers. 4) Various ways of nomenclature. 5) Difference between natural, synthetic, organic and inorganic polymers. 6) Terms-Monomer, Polymer, Polymerization, Degree of polymerization, Functionality, Number average, Weight average molecular weight. 7) Mechanisms of polymerization. 8) Polymerization techniques. 9) Uses & properties of polymers. 10) Role of polymer industry
PSO2	1. Students should understand the significance of cheminformatics in the modern practices of chemical science 2. Students should learn the necessity of cheminformatics in chemical science
PSO3	Students should learn the basic concepts of referencing 2. Students should understand the significance of structural data in the process of referencing 3. Students should able to correlate the necessity of input methods and the expected outcomes for the set of chemicals
PSO4	. Students should learn the basic idea about how to apply cheminformatics tool for variety of applications. 2. Students should understand the significance of database for the specific purpose of application.


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Department of Chemistry

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PROGRAM SPECIFIC OUTCOMES (PSOs) FOR

UNDERGRADUATE COURSES (Bachelor of Science)



Program: B.Sc.	Program Specific Outcomes
Chemistry PSO1	1. Factors affecting on solid state reactions, 2. Rate laws for reactions in solid state 3. Applying rate laws for solid state reactions 4. Results of kinetics studies 2. Students will learn the principle of mass spectroscopy, its instrumentation and nature of mass spectrum
PSO2	Cohesive Energy of ionic crystals based on coulomb's law and Born Haber Cycle 2. Correspondence between energy levels in the atom and energy bands in solid 3. Band structure in solids – Na, Ca and diamond 4. Conductors and insulators – Its correlation with Extent of energy in energy bands 5. phenomena of photoconductivity
PSO3	Types of radioactive decay: α -Decay, β -Decay and γ -Decay 5. The Group Displacement Law, Radioactive Disintegration Series 6. Kinetics of Radioactive Decay, Half-life, average life and units of radioactivity 7. Energy released in nuclear reaction: Einstein's equation, Mass Defect, Nuclear Binding Energy,
PSO4	History of polymers. 2) Classification of polymers 3) Chemical bonding & Molecular forces in Polymer 4) Molecular weight of polymers 5) Practical significance of polymer molecular weights 6) Molecular weight determination ,

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Department Of Chemistry

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PROGRAM SPECIFIC OUTCOMES (PSOs) FOR

UNDERGRADUATE COURSES (Bachelor of Science)

Program: F.YB.Sc.	Program Specific Outcomes
Chemistry PSO1	1. 1. Introduction to Analytical Chemistry i. Analytical Chemistry –branch of chemistry ii. Perspectives of analytical Chemistry iii. analytical problems 2. SI units, distinction between mass and weight vi. Units such as parts per million, parts per billion, parts per thousand, solution-dilatant volume ratio, function density and specific gravity of solutions
PSO2	i. Calculations of mole, molar concentrations and various units of concentrations which will be helpful for preparation of solution ii. Relation between molecular formula and empirical formula iii. Stoichiometric calculation iv. Define term mole, millimole, molar concentration, molar equilibrium concentration and Percent Concentration.
PSO3	Inorganic Estimations using volumetric analysis 2. Synthesis of Inorganic compounds 3. Analysis of commercial products 4. Purification of organic compounds 5. Preparations and mechanism of reactions involved
PSO4	v. SI units, distinction between mass and weight vi. Units such as parts per million, parts per billion, parts per thousand, solution-dilatant volume ratio, function density and specific gravity of solutions.

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Head

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V. B. D. S.

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