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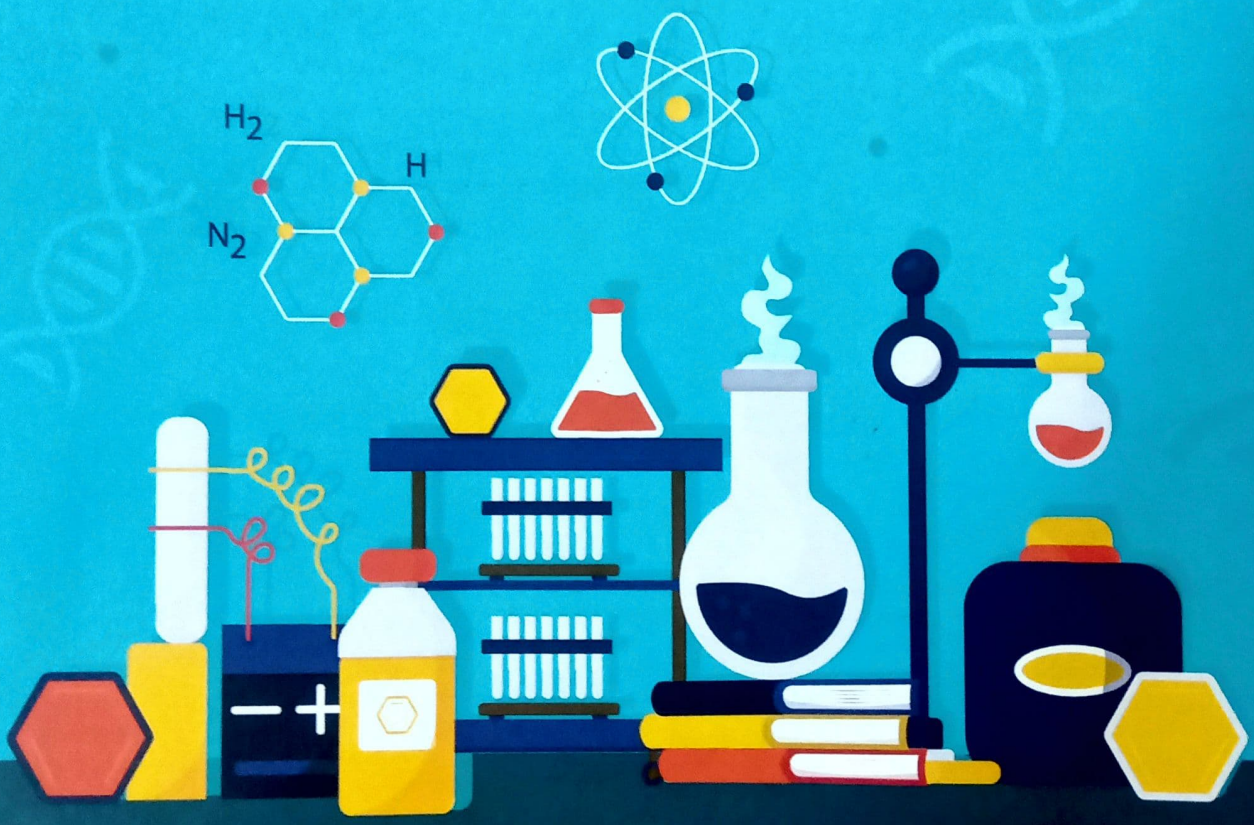

Dr. M. A. Sakhare
Mr. K. B. Sakhare
Mr. Y. N. Bharate
Dr. O. S. Chavan

B.Sc First Year First Semester As Per Revised Syllabus With Effective From June 2013 of Dr. Babasaheb Ambedkar Marathwada University Aurangabad and Useful for other Indian Universities.

A Text Book of

INORGANIC CHEMISTRY

Paper - I

For

[B.Sc. First Year]

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A Text Book of Inorganic Chemistry

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Publisher	:	Anand Prakashan, Jaisingpura, Aurangabad.(M.S) Cell : 9970148704 Email: anandprakashan7@gmail.com
©	:	Authors
Typeset At	:	Anand Computer Aurangabad.
Edition	:	26 May, 2021
ISBN No	:	978-93-91204-04-4
Cover Design	:	Aura Design Mumbai.
Printed At	:	Om Offset Aurangabad.
Main Distributor	:	Anand Book Depot Jaisingpura, Aurangabad - 431004 Phone No. : (0240) - 2400371
Price	:	200 /-

B.Sc. First Year
First Semester
Paper - I
INORGANIC CHEMISTRY

45 hrs

Syllabus

I. Atomic structure. 15 hrs

Atomic orbital's, Quantum numbers, Heisenberg uncertainty principle, shapes of s, p, d orbital's, Aufbau and Pauli exclusion principles. Hund'srule of maximum multiplicity.
Electronic configurations of the elements, Bohr's atomic model (Qualitative aspect only).

II. Periodic Properties. 10 hrs

Atomic and Ionic radii, Ionization Energy, Electron affinity and Electro negativity. Trends in periodic table and application in predicting and explaining the chemical behavior.

III. S-Block Elements. 10 hrs

Comparative study, diagonal relationship, salient features of hydrides, solvation and complexation tendencies including their functionsin biosystems.

IV. P - Block Elements. 10hrs

Comparative Study (including diagonal relationship) of groups 13-17 elements, compounds like hydrides oxides of groups 13-16. Interhalogen compounds and its types.

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INORGANIC CHEMISTRY

B.Sc. Ist Year Paper No - I

INDEX

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ISBN: 978-93-91204-04-4
9 789391 204044