



কামিয়াবি হামারা হক হে, হাম কামিয়াব হোকার রহেঙ্গে
— Anil Nagar, Founder & CEO, Adda Education

Adda247
PUBLICATIONS

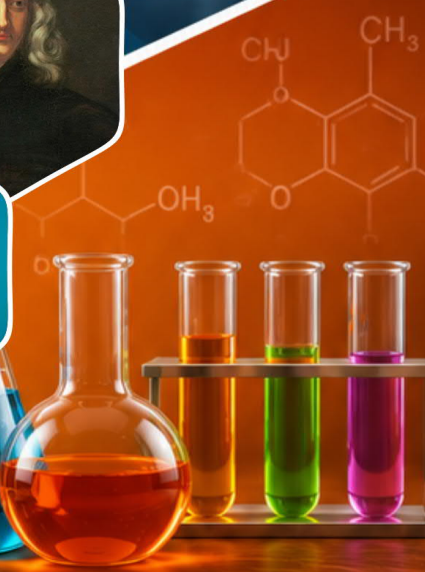
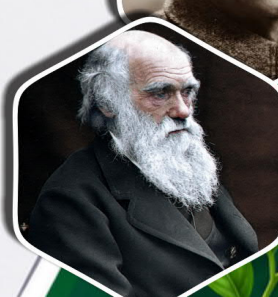
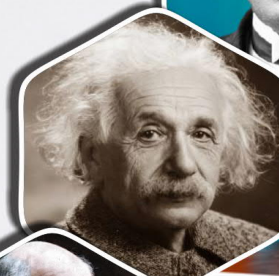
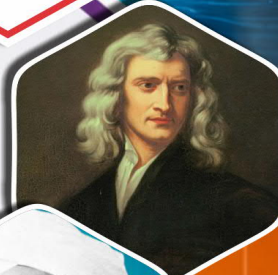
সাধারণ বিজ্ঞান

পদার্থবিজ্ঞান রসায়ন জীববিজ্ঞান

RRB Group D, NTPC, ALP, Technician, SSC,
WBPS, WBCS, কলকাতা পুলিশ,
পশ্চিমবঙ্গ পুলিশ, ANM, GNM, BHA,
এবং অন্যান্য প্রতিযোগিতামূলক পরীক্ষার জন্য

বৈশিষ্ট্য

- সহজবোধ্য ধারণা সহ সম্পূর্ণ তত্ত্ব
- বিগত বছরের প্রশ্নগুলির ওপর ভিত্তি করে
অনুশীলনামূলক প্রশ্ন
- গুরুত্বপূর্ণ তথ্য, সারণি ও চিত্র
- প্রতিটি অধ্যায়ের শেষে মনে রাখার মত
গুরুত্বপূর্ণ বিষয়
- সম্পূর্ণ বিজ্ঞান প্রস্তুতির জন্য একটিই বই





Anil Nagar
Founder & CEO, Adda Education

A Message from the Founder & CEO – Anil Nagar

At Adda Education, we're driven by a single belief: every learner in Bharat deserves the chance to build a better life. This journey isn't just about clearing an exam. It's about proving to yourself – and the world – that where you come from should never decide where you can go.

Our goal is simple – to bring exam-oriented, high-quality content in an accessible, affordable, and easy-to-revise format. This book is a trusted companion, researched and crafted by our expert faculty & team to help you not just memorize facts but understand their context and relevance.

This book belongs to you.

Keep learning. Keep believing. The journey is tough, but so are you.

Kamyabi humara haq hai. Hum kamyab hokar rahenge!

“What is Adda Education?”

Adda Education is one of India's most trusted education ecosystems – designed for Bharat.

With brands like Adda247, StudyIQ, PrepInsta, and Career247, we support millions of learners across Tier 2, 3, and 4 cities with test prep, upskilling, and employability.

We believe opportunity should not depend on geographical area, language, or background. That's why we build in vernacular, go deep into exam patterns, and obsess over learner outcomes – not vanity metrics.

Whether you're preparing for a government job, learning new skills for private employment, or just trying to change your life – we're here to support your journey.

Adda Education is not just a platform. It's a promise.

- Publisher : Metis Eduventures Private Limited 2nd Floor,
Tower A, Unitech Cyber Park, Sector-39,
Gurugram, Haryana – 122002
- Copyright : Adda247 Publication

- (1) No part of this publication may be reproduced, stored in a retrieval system or distributed in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise without the prior written permission of the publisher.
- (2) Despite having taken all possible precautions during writing/editing/proofing to make this book free from error but it may be possible that some may be left. Your's discretion is required.

Please write us: Email ID : content.publication@adda247.com

Content

Physics	05
1. Units, Measurements and Errors	06
2. Motion	23
3. Force	53
4. Gravitation	69
5. Work, Power and Energy	80
6. Centre of Mass and Rotational Motion	96
7. Mechanical Properties of Solids	112
8. Mechanical Properties of Fluid	123
9. Simple Harmonic Motion	147
10. Heat, Temperature and Thermodynamics	157
11. Wave Motion and Sound	182
12. Optics	208
13. Electrostatics	249
14. Electric Current	266
15. Magnetism	282
16. Modern Physics	312
17. Semiconductors	338
18. Communication	353
19. Nanotechnology	362
20. The Universe	372
Chemistry	387
1. Matter	388
2. Atomic Structure	413
3. Chemical Bonding and Chemical Reactions	437
4. Acids, Bases and Salts	456
5. Solutions and Colloids	469
6. Gases	482
7. Chemical Kinetics and Chemical Equilibrium	489
8. Electrolysis	503
9. Classification of Elements	519
10. Hydrogen and Its Compounds	532
11. Metals and Their Compounds	541
12. Extraction of Metals	573
13. Non-Metals and Their Compounds	580
14. Fuel, Combustion and Flame	621
15. Organic Compounds	640
16. Food Chemistry	659
17. Chemistry in Everyday Life	675

Biology	701
1. Living World	702
2. Cell: Structure and Function	754
3. Cell Cycle	765
4. Tissue	772
5. Nutrition	783
6. Plant Morphology	795
7. Reproduction	818
8. Human Body	851
9. Genetics	919
10. Heredity and Evolution	931
11. Health & Disease	942
12. The Role of Biotechnology	969
13. Environment and Its Impact (EVS)	985
14. Ecology and Ecosystem	1010
15. Agricultural Science	1042
16. Economic Zoology	1052
17. Economic Botany	1074