

Khanna's
Objective Type
Questions & Answers in
**ENERGY
TECHNOLOGY**



OP GUPTA

Khanna's Objective Type Questions & Answers in Energy Technology

Author :	O.P. Gupta
ISBN 13 :	978-93-74545-06-5
ISBN 10 :	93-74545-06-3
E-ISBN 13 :	978-93-74545-06-5
Edition :	First
Pages :	572
Type of book :	Paperback
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P. :	Rs 698.00
Categories :	Environmental Engineering, OBJECTIVE TYPE BOOKS
Condition Type :	New
Country Origin :	India

Product Description

Objective Type Questions and Answers in Energy Technology is a comprehensive academic resource designed to bridge the gap between theoretical knowledge and practical application in the field of energy. Authored by Om Prakash Gupta, a veteran professional with extensive experience at the Bokaro Steel Plant, the book serves as an essential guide for mastering the complexities of energy systems, fuels, and conservation. Its core theme revolves around providing a structured approach to understanding both conventional and renewable energy technologies through a vast collection of multiple-choice and short-answer questions.

The book's primary purpose is to assist students and professionals in preparing for high-stakes examinations, covering a diverse array of topics from thermal power generation and industrial boilers to cutting-edge renewable sources like solar, wind, and nuclear fusion. It is specifically tailored for diploma, degree, and postgraduate engineering students, as well as candidates appearing for professional membership examinations such as AMIE, AMIIM, and AMIICHE. Additionally, it serves as a valuable reference for aspiring Energy Managers and Auditors preparing for Bureau of Energy Efficiency (BEE) certifications. With its clear explanations and wide-reaching scope, this book offers immense practical value for anyone looking to excel in the energy sector.

Salient Features

- **Exhaustive Topic Coverage:** The book spans 33 comprehensive chapters, covering everything from basic energy scenarios and combustion technology to advanced topics like Magneto Hydro Dynamic (MHD) generators.
- **Dual-Section Format:** The content is strategically divided into Section A, featuring extensive objective-type questions for rapid self-assessment, and Section B, providing detailed short-answer responses.
- **Professional Exam Alignment:** Content is specifically curated to meet the syllabi requirements of competitive engineering exams and professional certifications like the BEE Energy Auditor examination.
- **Renewable Energy Focus:** Detailed sections are dedicated to the latest developments in solar, wind, ocean, geothermal, and biomass energy, reflecting modern shifts toward sustainability.
- **Industrial Utility Insights:** Includes practical knowledge on industrial components such as furnaces, refractories, compressed air systems, and cooling towers, essential for field professionals.



Table of Contents

Section-A

1. Basics of Energy and Energy Scenario
2. Fuels and Combustion Technology
3. Furnaces
4. Boilers
5. Waste heat Recovery
6. Properties & Uses of Steam
7. Thermal Insulation
8. Refractories
9. Basics of Electric Energy Uses
10. Electric Transformers
11. Electric Motors
12. Fans and Blowers
13. Pumps and Pumping Systems
14. Cooling Towers
15. Compressed Air System
16. Refrigeration System
17. DG Set System
18. Energy Efficient Lighting System
19. Energy Efficient Technology In Electrical System
20. Renewable Sources of Energy
21. Solar Energy
22. Wind Energy
23. Ocean Energy
24. Geothermal Energy
25. Biomass Energy
26. Hydropower
27. Nuclear Fusion Energy
28. Magneto Hydro dynamic (MHD) Generator
29. Energy Storage & Conversion System
30. Electric Power Generation
31. Energy Conversation & Audit
32. Energy & Environmental Impact



Author

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practicing experience of efficient Energy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T Kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited England and France on a study tour sponsored by United Nations Development Program (UNDP) to study the scope of energy conservation in steel plants in 1987.

