WBPSC IDO 2026

Industrial Development Officer

Complete Chapter-wise & Topic-wise Syllabus

(New Syllabus)

7 Subjects | 43 Chapters | 327 Topics

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Exam Pattern at a Glance

Written examination of 100 marks across seven subjects, followed by an interview.

Sl.	Subject	Marks	Share
1	English	15	15%
2	Industrial Safety, Security Measures & Pollution Control	10	10%
3	Environmental Issues, Energy Conservation & Renewable Energy	15	15%
4	Physical Science	15	15%
5	Elementary Computer Knowledge	10	10%
6	Industrial Scenario & Industrial Potential in West Bengal	15	15%
7	Mental Ability & Arithmetic	20	20%
	Total Written Exam	**100**	**100%**

Interview: 15 marks.

Subject-wise Overview

Sl.	Subject	Marks	Chapters	Topics
1	English	15	4	27
2	Industrial Safety, Security Measures & Pollution Control	10	4	30
3	Environmental Issues, Energy Conservation & Renewable Energy	15	4	38
4	Physical Science	15	6	52
5	Elementary Computer Knowledge	10	5	34
6	Industrial Scenario & Industrial Potential in West Bengal	15	8	74
7	Mental Ability & Arithmetic	20	12	72
	Total	**100**	**43**	**327**

Important Note

The topic lists in this PDF are a preparation-oriented, expanded chapter-wise breakdown of the syllabus outline. They are not a verbatim copy of the official WBPSC notification. The marks distribution and exam pattern follow the outline discussed; candidates must confirm the final exam pattern, language details and syllabus from the latest official WBPSC advertisement before relying on them.

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1. English

Marks: 15 | **Chapters:** 4 | **Topics:** 27

1.1 Grammar	
1.1.1	Parts of Speech
1.1.2	Noun, Pronoun, Adjective, Verb
1.1.3	Adverb, Preposition, Conjunction
1.1.4	Articles – A, An, The
1.1.5	Tense
1.1.6	Subject-Verb Agreement
1.1.7	Active Voice & Passive Voice
1.1.8	Direct & Indirect Speech
1.1.9	Modals
1.1.10	Conditional Sentences

1.2 Vocabulary	
1.2.1	Synonyms
1.2.2	Antonyms
1.2.3	One Word Substitution
1.2.4	Idioms & Phrases
1.2.5	Phrasal Verbs
1.2.6	Homophones
1.2.7	Spelling Correction

1.3 Sentence Structure	
1.3.1	Error Detection
1.3.2	Sentence Correction
1.3.3	Sentence Improvement
1.3.4	Fill in the Blanks
1.3.5	Sentence Rearrangement
1.3.6	Transformation of Sentences

1.4 Reading & Writing Skills	
1.4.1	Reading Comprehension
1.4.2	Cloze Test
1.4.3	Para Jumbles
1.4.4	Appropriate Word Usage

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2. Industrial Safety, Security Measures & Pollution Control

Marks: 10 | **Chapters:** 4 | **Topics:** 30

2.1 Industrial Safety	
2.1.1	Meaning and Importance of Industrial Safety
2.1.2	Workplace Safety Rules
2.1.3	Industrial Hazards
2.1.4	Electrical Safety
2.1.5	Mechanical Safety
2.1.6	Chemical Safety
2.1.7	Personal Protective Equipment (PPE)
2.1.8	Safety Signs and Symbols

2.2 Accident Prevention	
2.2.1	Causes of Industrial Accidents
2.2.2	Accident Prevention Methods
2.2.3	Risk Assessment
2.2.4	Emergency Response
2.2.5	First Aid
2.2.6	Fire Prevention
2.2.7	Fire Extinguishers and Their Uses
2.2.8	Emergency Exit and Evacuation

2.3 Industrial Security	
2.3.1	Factory Security Measures
2.3.2	Machine and Equipment Security
2.3.3	Material and Storage Safety
2.3.4	Security of Workers and Workplace
2.3.5	Basic Disaster Management

2.4 Pollution Control	
2.4.1	Air Pollution: Causes and Control
2.4.2	Water Pollution: Causes and Control
2.4.3	Soil Pollution
2.4.4	Noise Pollution
2.4.5	Industrial Waste Management
2.4.6	Hazardous Waste Disposal
2.4.7	Effluent Treatment Plant (ETP)
2.4.8	Sewage Treatment Plant (STP)
2.4.9	Pollution Control Board: Basic Role and Functions

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3. Environmental Issues, Energy Conservation & Renewable Energy

Marks: 15 | **Chapters:** 4 | **Topics:** 38

3.1 Environmental Studies	
3.1.1	Environment and Ecosystem
3.1.2	Components of Environment
3.1.3	Food Chain and Food Web
3.1.4	Biodiversity
3.1.5	Natural Resources
3.1.6	Deforestation
3.1.7	Global Warming
3.1.8	Climate Change
3.1.9	Greenhouse Effect
3.1.10	Ozone Layer Depletion
3.1.11	Acid Rain
3.1.12	Sustainable Development

3.2 Energy Resources	
3.2.1	Conventional and Non-Conventional Energy
3.2.2	Renewable and Non-Renewable Energy
3.2.3	Coal, Petroleum and Natural Gas
3.2.4	Thermal Power
3.2.5	Hydroelectric Power
3.2.6	Nuclear Energy

3.3 Renewable Energy	
3.3.1	Solar Energy
3.3.2	Solar Photovoltaic System
3.3.3	Solar Thermal Energy
3.3.4	Wind Energy
3.3.5	Hydropower
3.3.6	Biomass Energy
3.3.7	Biogas
3.3.8	Geothermal Energy
3.3.9	Tidal Energy
3.3.10	Advantages and Limitations of Renewable Energy

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3.4 Energy Conservation	
3.4.1	Meaning and Importance of Energy Conservation
3.4.2	Energy Efficiency
3.4.3	Energy Audit
3.4.4	Energy-Efficient Electrical Appliances
3.4.5	LED Lighting
3.4.6	Energy Conservation in Industries
3.4.7	Waste Heat Recovery
3.4.8	Power Factor Improvement
3.4.9	Energy Saving Methods
3.4.10	Basic Awareness of Energy Conservation Initiatives in India

4. Physical Science

Marks: 15 | **Chapters:** 6 | **Topics:** 52

4.1 Measurement & Units	
4.1.1	Physical Quantities
4.1.2	Fundamental and Derived Quantities
4.1.3	SI Units
4.1.4	CGS and MKS Systems
4.1.5	Dimensions
4.1.6	Measuring Instruments

4.2 Motion & Force	
4.2.1	Distance and Displacement
4.2.2	Speed and Velocity
4.2.3	Acceleration
4.2.4	Newton's Laws of Motion
4.2.5	Force and Momentum
4.2.6	Friction
4.2.7	Work, Power and Energy
4.2.8	Gravitation
4.2.9	Pressure

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4.3 Heat & Temperature	
4.3.1	Heat and Temperature
4.3.2	Modes of Heat Transfer
4.3.3	Conduction, Convection and Radiation
4.3.4	Thermal Expansion
4.3.5	Specific Heat
4.3.6	Change of State

4.4 Light & Sound	
4.4.1	Reflection of Light
4.4.2	Refraction of Light
4.4.3	Lens and Mirror
4.4.4	Human Eye
4.4.5	Sound Waves
4.4.6	Frequency and Wavelength
4.4.7	Echo
4.4.8	Applications of Sound

4.5 Electricity & Magnetism	
4.5.1	Electric Charge and Current
4.5.2	Voltage and Resistance
4.5.3	Ohm's Law
4.5.4	Series and Parallel Circuits
4.5.5	Electrical Power and Energy
4.5.6	Conductors and Insulators
4.5.7	Magnetism
4.5.8	Electromagnetic Induction
4.5.9	Electric Motor and Generator
4.5.10	Transformer

4.6 Basic Chemistry	
4.6.1	Matter and Its States
4.6.2	Elements, Compounds and Mixtures
4.6.3	Atom and Molecule
4.6.4	Atomic Structure
4.6.5	Periodic Table
4.6.6	Metals and Non-Metals
4.6.7	Acids, Bases and Salts
4.6.8	Chemical Reactions
4.6.9	Oxidation and Reduction

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4.6 Basic Chemistry	
4.6.10	Corrosion
4.6.11	Alloys
4.6.12	Fuels and Combustion
4.6.13	Basic Industrial Chemicals

5. Elementary Computer Knowledge

Marks: 10 | **Chapters:** 5 | **Topics:** 34

5.1 Computer Fundamentals	
5.1.1	Introduction to Computer
5.1.2	Characteristics of Computer
5.1.3	Generations of Computer
5.1.4	Types of Computer
5.1.5	Basic Components of Computer
5.1.6	Input and Output Devices
5.1.7	CPU, ALU and CU
5.1.8	Memory: RAM, ROM, Cache
5.1.9	Storage Devices

5.2 Operating System	
5.2.1	Introduction to Operating System
5.2.2	Windows Basics
5.2.3	File and Folder Management
5.2.4	Desktop and Taskbar
5.2.5	Basic Computer Settings
5.2.6	Software and Hardware

5.3 MS Office	
5.3.1	MS Word: Basic Features
5.3.2	MS Excel: Rows, Columns, Formula and Functions
5.3.3	MS PowerPoint: Presentation Basics
5.3.4	Basic Spreadsheet Operations

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5.4 Internet & Networking	
5.4.1	Internet and WWW
5.4.2	Web Browser
5.4.3	Search Engine
5.4.4	Email
5.4.5	URL and Website
5.4.6	LAN, MAN and WAN
5.4.7	Wi-Fi and Networking Basics
5.4.8	Uploading and Downloading

5.5 Cyber Security	
5.5.1	Computer Virus
5.5.2	Malware and Antivirus
5.5.3	Phishing
5.5.4	Password Security
5.5.5	Data Backup
5.5.6	Cyber Safety
5.5.7	Digital Payment Safety

6. Industrial Scenario & Industrial Potential in West Bengal

Marks: 15 | **Chapters:** 8 | **Topics:** 74

6.1 Basic Industrial Concepts	
6.1.1	Meaning and Types of Industries
6.1.2	Primary, Secondary and Tertiary Industries
6.1.3	Large, Medium, Small and Micro Industries
6.1.4	Manufacturing and Service Industries
6.1.5	Industrial Development
6.1.6	Industrial Growth and Economic Development
6.1.7	Industrial Infrastructure

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6.2 MSME – Micro, Small & Medium Enterprises	
6.2.1	Meaning and Concept of MSME
6.2.2	Micro, Small and Medium Enterprise Classification
6.2.3	Role of MSME in Indian Economy
6.2.4	Importance of MSME in Employment Generation
6.2.5	MSME Registration
6.2.6	Udyam Registration
6.2.7	MSME Financing
6.2.8	Credit Facilities for MSMEs
6.2.9	Problems Faced by MSMEs
6.2.10	Role of MSME Development Offices

6.3 Industrial Development in India	
6.3.1	Industrial Revolution: Basic Concept
6.3.2	Industrial Development after Independence
6.3.3	Industrial Policy of India
6.3.4	Make in India
6.3.5	Startup India
6.3.6	Skill India
6.3.7	Production Linked Incentive (PLI)
6.3.8	Industrial Corridors
6.3.9	Special Economic Zones (SEZ)
6.3.10	Ease of Doing Business

6.4 Industrial Scenario of West Bengal	
6.4.1	Industrial Development of West Bengal
6.4.2	Major Industrial Regions
6.4.3	Kolkata Industrial Region
6.4.4	Durgapur-Asansol Industrial Belt
6.4.5	Haldia Industrial Region
6.4.6	Howrah-Hooghly Industrial Belt
6.4.7	Siliguri and North Bengal Industrial Potential
6.4.8	Major Industrial Centres of West Bengal
6.4.9	Industrial Infrastructure in West Bengal

6.5 Major Industries of West Bengal	
6.5.1	Jute Industry
6.5.2	Tea Industry
6.5.3	Iron and Steel Industry
6.5.4	Coal and Mining Industry

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6.5 Major Industries of West Bengal	
6.5.5	Engineering Industry
6.5.6	Textile Industry
6.5.7	Leather Industry
6.5.8	Chemical and Petrochemical Industry
6.5.9	Food Processing Industry
6.5.10	IT and ITES Industry
6.5.11	Tourism and Hospitality Industry

6.6 Industrial Resources of West Bengal	
6.6.1	Coal Resources
6.6.2	Mineral Resources
6.6.3	Water Resources
6.6.4	Agricultural Resources
6.6.5	Forest Resources
6.6.6	Human Resources
6.6.7	Transport and Communication
6.6.8	Ports and Industrial Connectivity

6.7 Industrial Policies & Government Support	
6.7.1	Role of West Bengal MSME Department
6.7.2	Role of Directorate of MSME
6.7.3	West Bengal Industrial Development Corporation (WBIDC)
6.7.4	West Bengal Small Industries Development Corporation (WBSIDC)
6.7.5	Industrial Promotion Schemes
6.7.6	Subsidies and Incentives
6.7.7	Financial Assistance
6.7.8	Entrepreneurship Development
6.7.9	Single Window Clearance System

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6.8 Entrepreneurship & Business Development	
6.8.1	Meaning of Entrepreneurship
6.8.2	Qualities of an Entrepreneur
6.8.3	Startup and Small Business
6.8.4	Business Planning
6.8.5	Project Report
6.8.6	Market Survey
6.8.7	Sources of Business Finance
6.8.8	Working Capital
6.8.9	Marketing and Sales
6.8.10	Challenges of Small Industries

7. Mental Ability & Arithmetic

Marks: 20 | **Chapters:** 12 | **Topics:** 72

7.1 Number System	
7.1.1	Natural Numbers
7.1.2	Whole Numbers
7.1.3	Integers
7.1.4	Prime and Composite Numbers
7.1.5	Divisibility Rules
7.1.6	HCF and LCM
7.1.7	Simplification
7.1.8	BODMAS

7.2 Basic Arithmetic	
7.2.1	Addition, Subtraction, Multiplication and Division
7.2.2	Fractions
7.2.3	Decimal Numbers
7.2.4	Square and Square Root
7.2.5	Cube and Cube Root

7.3 Percentage	
7.3.1	Basic Percentage
7.3.2	Percentage Increase and Decrease
7.3.3	Percentage-based Problems
7.3.4	Population-based Problems

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7.4 Profit, Loss & Discount	
7.4.1	Cost Price and Selling Price
7.4.2	Profit and Loss
7.4.3	Profit and Loss Percentage
7.4.4	Marked Price
7.4.5	Discount
7.4.6	Successive Discount

7.5 Ratio & Proportion	
7.5.1	Ratio
7.5.2	Proportion
7.5.3	Direct Proportion
7.5.4	Inverse Proportion
7.5.5	Partnership

7.6 Average	
7.6.1	Simple Average
7.6.2	Average of Numbers
7.6.3	Age-based Problems
7.6.4	Combined Average

7.7 Time & Work	
7.7.1	Work and Efficiency
7.7.2	Individual Work
7.7.3	Combined Work
7.7.4	Pipes and Cisterns

7.8 Time, Speed & Distance	
7.8.1	Speed, Distance and Time
7.8.2	Average Speed
7.8.3	Relative Speed
7.8.4	Train Problems
7.8.5	Boat and Stream

7.9 Interest	
7.9.1	Simple Interest
7.9.2	Compound Interest
7.9.3	Difference between SI and CI

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7.10 Mensuration	
7.10.1	Perimeter
7.10.2	Area
7.10.3	Triangle
7.10.4	Square and Rectangle
7.10.5	Circle
7.10.6	Cube and Cuboid
7.10.7	Cylinder
7.10.8	Basic Volume and Surface Area

7.11 Data Interpretation	
7.11.1	Table-based Questions
7.11.2	Bar Graph
7.11.3	Pie Chart
7.11.4	Line Graph
7.11.5	Data Comparison

7.12 Reasoning & Mental Ability	
7.12.1	Number Series
7.12.2	Alphabet Series
7.12.3	Analogy
7.12.4	Classification
7.12.5	Coding-Decoding
7.12.6	Blood Relation
7.12.7	Direction Sense
7.12.8	Ranking and Order
7.12.9	Calendar
7.12.10	Clock
7.12.11	Missing Number
7.12.12	Mathematical Operations
7.12.13	Logical Sequence
7.12.14	Statement and Conclusion
7.12.15	Venn Diagram

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Preparation Tips

1. Cover each subject chapter by chapter and revise every topic at least twice.

2. Give extra time to high-weightage subjects: Mental Ability & Arithmetic (20 marks), and English, Environmental Issues, Physical Science and Industrial Scenario of West Bengal (15 marks each).

3. Practise previous-year questions and mock tests regularly.

4. Keep checking the official WBPSC website for notices and updates.

Best of luck from the polynoteshub.co.in team!

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