

Department of Biotechnology India

Syllabus For PAPER - I

DBT Scientist 'C' Exam Syllabus - Logical Reasoning

- Dot Situation
- Identical figure groupings
- Series
- Analytical Reasoning
- Paper Folding
- Paper Cutting
- Cubes and Dice Analogy
- Series Completion
- Verification of truth of the Statement
- Situation Reaction Test
- Direction Sense Test
- Classification
- Data Sufficiency
- Alpha- Numeric Sequence Puzzle
- Venn Diagrams
- Word Sequence
- Missing Characters
- Sequential Output training
- Directions
- Test on Alphabets
- Eligibility Test
- Puzzle Test
- Blood Relations
- Coding- Decoding
- Assertion and Reasoning
- Arithmetical Reasoning
- Operations of Mathematics
- Forming figures and analysis
- Construction of squares and Triangles
- Completion Incomplete Pattern
- Spotting embedded figures
- Classification
- Rules Detection
- Water Images

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- Mirror Images
- Figure Matrix

DBT Scientist Quantitative Aptitude Syllabus 2019

- Probability
- Time and Distance
- Quadratic Equations
- Indices and Surds
- Problems on Trains
- Ratio and Proportion
- Areas
- Volumes
- Percentages
- Numbers and Ages
- Averages
- Mensuration
- Profit and Loss
- Problems on Numbers
- Simple Equations
- Permutations and Combinations
- Compound Interest
- Boats and Streams
- Simplification and Approximation
- Mixtures and Allegations
- Simple Interest
- Odd Man Out
- Races and Games
- Pipes and Cisterns
- Problems on LCM and HCF
- Time and Work Partnership

DBT Scientist General Knowledge - Topics

- Indian History
- Indian Polity
- Science & Technology
- Indian Geography
- Current Affairs
- Economy

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- Latest Events
- Polity
- History of State And Country
- Sports-Related News
- Persons in Headlines
- Sports
- Name of Ministers
- Budget
- General Knowledge of Science
- Indian Culture & Heritage
- Current Events – National & International
- IT & Space etc
- Indian Economy
- Indian Constitution

DBT English Syllabus 2019

- Transformation
- Antonyms
- Sentence Arrangement
- Fill in the blanks
- Spotting Errors
- Para Completion
- Joining Sentences
- Error Correction (Phrase in Bold)
- Active and Passive Voice
- Substitution
- Sentence Improvement
- Synonyms
- Spelling Test
- Substitution
- Passage Completion
- Idioms and Phrases
- Sentence
- Completion
- Error Correction (Underlined Part)
- Prepositions

DBT Scientist 'C' General Science Syllabus

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- Chemical Kinetics
- Thermodynamics
- Organic reaction mechanism
- Stereochemistry
- Natural Products
- Drugs
- Nuclear Chemistry
- Analytical Chemistry
- Instrumental methods
- Poisons and Pesticides
- Quantum Chemistry
- Organometallic compounds
- Bioinorganic chemistry
- and Polymers
- Electrochemistry

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- Mathematical Logic
- Probability
- Graph Theory
- Determinants
- Differential equations
- Calculus
- Coordinate geometry
- First Order Logic
- Probability and Statistics
- Propositional Logic
- Matrices
- Numerical Methods
- Set Theory & Algebra
- Combinatorics
- Linear Algebra

DBT Current Affairs - Topics

- Current Ministers & Governors
- Business
- Indian Financial System

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- Politics
- Capitals & Currencies
- Books & Authors
- Finance
- Science & Technology
- Environment
- Economy
- Banking
- Awards
- Sports & General
- Festivity
- International Affairs
- Current Events
- Education
- Government Schemes
- Abbreviations and Economic Terminologies
- Summits & Conferences, etc
- Obituary
- Talkies

Syllabus For PAPER - II

Life Sciences

- Molecules and their Interaction Relevant to Biology
- Cellular Organization
- Fundamental Processes
- Cell Communication and Cell Signaling
- Developmental Biology
- Inheritance Biology
- Diversity of Life Forms
- Ecological Principles
- Evolution and Behavior
- System Physiology – Plant
- System Physiology – Animal
- Applied Biology
- Methods in Biology

DBT Medical & Veterinary Sciences Syllabus

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- Clinical Pathology
- Biochemistry
- Pharmacognosy
- Health Education & Community Pharmacy
- Hospital & Clinical Pharmacy
- Accountancy
- First Aid
- Anatomy & Physiology
- Paediatric Nursing
- Toxicology
- Psychiatric Nursing
- Mental Health
- English
- Nursing Management
- Community Health Nursing
- Fundamentals of Nursing
- Human Anatomy & Physiology
- Pharmaceutics
- Pharmaceutical Chemistry
- Drug Store Management
- Pharmacology
- Midwifery & Gynaecological Nursing
- Commerce
- Microbiology
- Sociology
- Psychology
- Pharmaceutical Jurisprudence
- Health Educational & Communication Skills
- Computers in Nursing
- Medical-Surgical Nursing
- Nutrition
- Personal Hygiene
- Animal Nutrition
- Animal Physiology
- Animal Reproduction
- Livestock Production & Management
- Genetics and Animal Breeding
- Extension
- Anatomy

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- Pharmacology
- Hygiene
- Animal Diseases
- Milk & Milk Product Technology
- veterinary Public Health
- Meat Hygiene and Technology

DBT Engineering Syllabus

(i) Civil Engineering

- The flow of Fluids, Hydraulic Machines and Hydro Power
- Fluid Mechanics, Open Channel Flow, Pipe Flow
- Hydraulic Machines and Hydropower
- Hydrology and Water Resources Engineering
- Environmental Engineering
- Water Supply Engineering
- Building Materials
- Structural Analysis
- Design of Steel Structures
- Design of Concrete and Masonry structures
- Construction Practice
- Planning and Management
- Waste Water Engineering
- Solid Mechanics
- Solid Waste Management
- Air, Noise pollution, and Ecology
- Geotechnical Engineering and Foundation Engineering
- Surveying and Geology
- Transportation Engineering
- Highways
- Tunneling
- Railways Systems
- Harbors
- Airports

(ii) Mechanical Engineering

- Engineering Mechanics
- Engineering Materials

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- Mechanisms and Machines
- Fluid Mechanics
- Thermodynamics and Heat transfer
- IC Engines, Refrigeration and Air conditioning
- Turbo Machinery
- Power Plant Engineering
- Renewable Sources of Energy
- Design of Machine Elements
- Manufacturing
- Industrial and Maintenance Engineering
- Mechatronics and Robotics

(iii) Electrical Engineering

- Analog and Digital Electronics
- Systems and Signal Processing
- Control Systems
- Electrical Machines
- Engineering Mathematics
- Electric Circuits and Fields
- Electrical and Electronic Measurements
- Computer Fundamentals
- Basic Electronics Engineering
- Electrical Materials
- Power Systems
- Power Electronics and Drives

(iv) Electronics and Telecommunication Engineering

- Analog and Digital Communication Systems
- Control Systems
- Computer Organization and Architecture
- Electro Magnetics
- Advanced Electronics Topics
- Basic Electrical Engineering
- Materials Science
- Advanced Communication Topics
- Basic Electronics Engineering
- Electronic Measurements and Instrumentation
- Network Theory

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- Analog and Digital Circuits

(v) Computer Science

- MS Word, Microsoft OneNote
- Microsoft Access
- Introduction to Computer Science
- Boolean Algebra
- Computer Networks
- Emerging Technologies and Web Publishing
- PC Software and Office Automation
- Database Management System
- Data Structures
- MS PowerPoint
- MS Visio and MS Excel
- Microsoft Outlook
- The Internet
- Workplace Productivity Tools
- MS Project, Microsoft Publisher