**Download NLC Graduate Executive Trainee Exam pattern PDF**

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| --- | --- | --- |
| **Subjects** | **Questions** | **Exam Type & Marking Scheme** |
| **Part I:** Quantitative aptitude, Logical Reasoning, General Awareness, Data Interpretation, General English | 40 | Objective Type  1 Mark for the correct answer  1/4th Mark deduction for the incorrect answer |
| **Part II:** Professional Knowledge (Discipline related) | 80 |

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## NLC Graduate Executive Trainee Syllabus PDF – Part I

**NLC Graduate Executive Trainee for Quantitative Aptitude**

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

**NLC Graduate Executive Trainee for  Logical Reasoning**

* Analytical Ability and Data Interpretation
* Society
* Heritage and Culture
* Polity
* Economy
* Human Development Indices and the Development Programmes in India

**NLC Graduate Executive Trainee for  General Awareness**

* National Dance
* Music & Literature
* Indian Culture
* Scientific observations
* Political Science
* World organizations
* Countries and Capitals
* Famous Places in India
* Books and Authors
* Important Dates
* About India and it’s neighboring countries
* Science and innovations
* New inventions
* Economic problems in India
* Geography of India
* National and International current affairs

**NLC Graduate Executive Trainee for  General English**

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

**NLC GET Syllabus PDF– Part II**

**NLC Graduate Executive Trainee for  Civil**

* RCC and Steel Structures
* Fluid Mechanics and Hydraulics
* Structural Engineering
* Rain Water Harvesting
* Surveying
* Environmental Engineering
* Transportation Engineering
* Strength of Materials and Theory of Structures
* Hydrology and Water Resources Engineering
* Building Materials and Construction
* Sewage Treatment Plants and Treated Sewage Water
* Soil Mechanics and Foundation Engineering
* Estimation, Costing and Construction Management

**NLC Graduate Executive Trainee for  Electrical**

* Power Systems
* Control Systems
* Signals & Systems
* Electromagnetic field
* Electrical and Electronic Measurements
* Electric Circuits
* Electrical Machines
* Analog and Digital Electronics
* Electric Drives
* Power Electronics

**NLC Graduate Executive Trainee for  Geology**

* Stratigraphy
* Geomorphology and Remote Sensing
* Engineering geology
* Hydrogeology
* Sedimentology
* Ore genesis
* Mineral exploration
* Structural geology and Geotectonics
* Paleontology
* Igneous and Metamorphic petrology
* Crystallography and Mineralogy
* Geochemistry
* Environmental geology
* Indian mineral deposits and mineral economics
* Fuels

**NLC Graduate Executive Trainee for  Mechanical**

* Theory of Machines
* Heat-Transfer
* Engineering Mechanics
* Mechanics of Materials
* Turbomachinery
* Applied Mechanics and Design
* Thermodynamics
* Power Engineering
* I.C. Engines
* Machine Design
* Refrigeration and air-conditioning
* Inventory Control
* Operations Research
* Machining and Machine Tool Operations
* Computer Integrated Manufacturing
* Production Planning and Control
* Fluid Mechanics and Thermal Sciences
* Engineering Materials
* Casting, Forming and Joining Processes
* Materials, Manufacturing and Industrial Engineering

**NLC Graduate Executive Trainee for  Electronics**

* Electronic Devices
* Analog Circuits
* Network theorems
* Solution of network equations using Laplace transform
* Amplifiers
* Control Systems
* Tools and techniques for LTI control system analysis
* Digital circuits
* Combinatorial circuits
* Sequential circuits
* A microprocessor (8085)
* Signals and Systems
* Linear Time-Invariant (LTI) Systems
* Control system
* Digital modulation schemes
* Electromagnetics
* Analog communication systems
* Waveguides
* Basics of Antennas
* Digital communication systems
* Maxwell’s equations
* Communications
* Transmission lines

**NLC Graduate Executive Trainee for  Instrumentation & Control**

* Electrical Circuits
* Engineering Mathematics
* Control Systems
* Measurements
* Sensors and Industrial Instrumentation
* Analog Electronics
* Instrumentation Engineering
* Signals and Systems
* Communication and Optical Instrumentation
* Digital Electronics

**NLC Graduate Executive Trainee for  Finance**

* Taxation
* Human Resource Management
* Industrial Relations
* Cost and Management accounting
* Business statistics & data processing
* Auditing
* Financial Accounting
* Cost Accounting
* Organisation Theory and Behaviour
* Business & Corporate Laws
* Financial Institutions and Markets
* Financial management & accounting
* Income Tax Law

**Human Resource**

* Performance management and appraisal
* Transfer, Promotion, Leave
* Training and development, productivity improvement
* Motivation, Employee effectiveness
* Disciplinary procedure
* Grievance and dispute handling
* Recruitment and Selection
* Leadership development
* Safety, Health,  Education, Social Security

**NLC Graduate Executive Trainee for  Mining**

* Metalliferous Mining
* Mine Surveying Practice
* Surface Mining
* Mine Machinery
* Mine Environmental Engineering
* Coal Mining
* Underground Metal Mining Technology
* Mine Designing
* Rock Mechanics & Ground Control
* Industrial Training in Underground Mines
* Mineral Recovery

**NLC Graduate Executive Trainee for  Computer Science**

* Mathematical Logic
* Digital Logic
* Computer Organization and Architecture
* Theory of Computation
* Graph Theory
* Programming and Data Structures
* Combinatorics
* Algorithms
* Computer Networks
* Web technologies
* Operating Systems
* Compiler Design
* Databases
* Information Systems and Software Engineering