

## UPPCL Technician (Line) Syllabus

### UPPCL Part 1 Syllabus:

- Basic of Computers
- Generations of computer
- Input & Output Device
- Hardware & Software
- Shortcuts & Basic knowledge MS word
- MS Excel, MS power point
- Memory Orientation, Internet
- LAN, WAN, Modem
- Computer Abbreviations, Modern day Technology.

### UPPCL Part 2 Syllabus:

#### Logical Reasoning:

- Analogies, Similarities And Differences
- Spatial Visualization, Spatial Orientation
- Problem Solving, Analysis, Judgment
- Decision Making, Visual Memory
- Discrimination, Observation
- Relationship Concepts, Arithmetic Reasoning
- Verbal And Figure Classification
- Arithmetical Number Series, Non-Verbal Series
- Coding And Decoding, Statement Conclusion
- Syllogistic Reasoning.

#### General Studies:

- Sports
- History
- Geography
- Culture
- General Polity
- Economic Scene
- Indian Constitution
- Scientific Research etc.

#### General Hindi:

- अलंकार, रस
- पर्यायवाची
- विलोम,समास
- संधियां
- तत्सम एवं तद्भव

- अनेकार्थी शब्द
- लोकोक्तियां एवं मुहावरे
- वाक्यांशों के लिये एक शब्द निर्माण
- वाक्यसंशोधन- लिंग, वचन, कारक, काल, वर्तनी, त्रुटि से संबंधित

### General English:

- Reading Comprehension Grammar
- Articles Grammar
- Prepositions Grammar
- Spelling Grammar
- Verbs Vocabulary
- Antonyms Vocabulary
- Idioms and Phrases Vocabulary
- Synonyms

### Technical Subjects:

#### Electrician Trade:

- Various safety measures involved in the Industry. Elementary First Aid. The concept of Standard.
- Identification of Trade-Hand tools-Specifications.
- Fundamental of electricity. Electron theory-free electron. Fundamental terms, definitions, units & effects of electric current.
- Soldering, flux and soldering technique. Resistors types of resistors & properties of resistors.
- Definition, Explanation, and
- Voltage grading of different types of Insulators,
- Ohm's Law
- Properties of insulators, conductors, and semiconductors.
- Law of Resistance. Series and parallel circuits.

#### Electrical

- Network graph
- Transient response of dc and ac networks
- Sinusoidal steady-state analysis
- KCL, KVL, Node and Mesh analysis
- Resonance, Ideal current Passive filters, and voltage sources
- Thevenin's theorem, Norton's theorem, Superposition theorem, Maximum power transfer theorem
- Two-port networks, three phase circuits, Power and power factor in ac circuits.
- Effect of dielectric medium
- The capacitance of simple configurations
- Biot-Savart's law, Curl, Faraday's law, Ampere's law, Lorentz force

- Inductance, Reluctance, Magnetomotive force, Magnetic circuits
- Self and Mutual inductance of simple configurations.