BSNL JTO Syllabus

BSNL JTO Section I Syllabus

Materials and Components

- · Electronic Engineering materials
- Capacitors
- Ceramic materials
- Ceramic resonators
- Conductors
- Electromechanical components
- Ferroelectric material
- Inductors
- Insulators
- Magnetic material
- Optical materials
- Passive components
- Piezoelectric materials
- Resistors
- Semiconductors
- Superconducting materials

Physical Electronics, Electron Devices — The Sulface — The

- Integrated Circuits
- Bipolar Junction Transistor vernment/Private Jobs Anytime...
- Carrier Statistics
- Electrons and Holes concept
- Hall Effect
- Junction theory
- Power switching devices
- Semiconductors
- Types of diodes
- Types of IC's like bipolar, MOS and CMOS

Electromagnetic Theory

- Basics of antenna theory
- Transmission lines
- Waveguides and resonators

Electronic Measurements and Instrumentation

- Electronic measurements of non-electrical quantities
- Electronic measuring instruments
- Error analysis
- Measurement standards
- · Measurements of basic electrical quantities

- Transducers
- Working principles of measuring instruments

Network Theory

- Elements of network synthesis
- Network analysis techniques
- Network theorem
- Transient and steady state sinusoidal response
- Transmission criteria

Power Electronics

- AC regulators
- AC to DC convertors
- Inverters
- Power Semiconductor devices
- Pulse width modulation
- Single-phase and 3-phase Invertors
- Sinusoidal modulation
- Switched capacitor networks
- Transistor

BSNL JTO Section II Syllabus

<u>Digital Electronic Circuits</u>	Analog Electronic Circuits
Boolean algebra Boolean functions Combinational logic circuits De-multiplexer Digital Comparator Flip-flops Full adder Half adder IC logic families IC Logic gates etc	 Feedback amplifiers Frequency response Operational Amplifier Oscillators Power amplifiers Pulse shaping circuits Rectifiers Small Signal analysis Transistor biasing Tuned amplifiers
Control Systems	Communication Systems
 Compensators Design of Control Systems Frequency response analysis Gain and phase margins Industrial controllers Root locus techniques Transient and steady state response 	 Frequency division multiplexing Optical Communication Propagation of signals Quantization & Coding Sampling Data reconstruction Satellite communication Time division Multiplexing
Microwave Engineering	Computer Engineering
Microwave antennasMicrowave Communication	Control unit designData representation

- Microwave generation and amplifiers
- Microwave Measurements
- Microwave Propagation
- Microwave Tubes
- Solid state devices
- Waveguides

- Computer architecture processor design
- Data structures
- I/O System Organization
- Memory organization
- Number Systems etc

Microprocessors

- Applications of Microprocessors in Telecommunications
- Assembly language programming
- Instruction set
- Interfacing for memory and I/O
- Microprocessor architecture

BSNL JTO General Ability test Syllabus

- English Language
- Current affairs
- Current events and developments in Telecommunication Sector



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