

**BHARAT SANCHAR NIGAM LIMITED**  
(A Govt. of India Enterprise)

**SYLLABUS AND SCHEME OF EXAMINATION FOR LIMITED  
DEPARTMENTAL COMPETITIVE EXAMINATION  
FOR  
TELECOM MECHANICS**

**(A) SCHEME OF EXAMINATION**

There will be a single **Objective Multiple-choice-type** Paper of 100 Marks comprising of three Sections. The time allowed shall be three (3) hours. The minimum qualifying marks in the examination for General candidates shall be 30% in each section and 40% in aggregate and for Scheduled Caste & Scheduled Tribe candidates 20% in each section and 33% in aggregate. Selection shall be made as per the merit in the examination based on aggregate marks of the paper.

SUBJECT	MAXIMUM MARKS	TIME ALLOWED
SECTION - I MATHEMATICS	30	3 HOURS
SECTION - II GENERAL SCIENCE	30	
SECTION - III DEPARTMENTAL PRACTICES	40	
<b>TOTAL</b>	<b>100 MARKS</b>	

**SYLLABUS**

**SECTION-I MATHEMATICS**

System of numeration, addition, subtraction, division, multiplication, percentages and its applications, simple interest, calculation of averages, profit & loss, ratio and proportion.

Basic concepts about lines, angles and other Geometrical figures.

*R. S. K. K. K.*

## SECTION-II GENERAL SCIENCE

Units of measurement of length, Mass and Time, Concept of Pressure and specific gravity, Celsius and Fahrenheit temperature.

Conductor, Insulator and Semi-conductor properties, electric current, voltage, simple application of Ohm's Law, resistances, simple applications of resistances in series and parallel, application of electric current—electric bulb, heater, fuses, switch, regulator and fluorescent tube lights. Use and application of basic measuring instruments like Voltmeter Ammeter and Multimeter.

## SECTION-III — DEPARTMENTAL PRACTICES

- i) Organizational set up up-to Telecom Circle level.
- ii) Various types of subscriber instruments and their working.
- iii) Various types of electronic switching systems/transmission systems presently in use in BSNL
- iv) Various types of Tools for line work.
- v) Wiring – House wiring for Telephones at subscribers' premises and Exchange wiring at MDF/IDF.
- vi) Type of switchboards, cables, their identification and laying/terminations.
- vii) Protective devices and protection against foreign voltage & their detection.
- viii) Basic concept of battery power plant.
- ix) Earthing practices and methodology.
- x) Different types of antennae being used in BSNL
- xi) OFC tools and laying practices

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*Prakash*  
ADG (Per-III)