

इरिसेट

IRISET

ब्लॉक सिगनलिंग प्रयोगशाला

BLOCK SIGNALLING LABORATORY

प्रयोग सं. बी एस एल - 04

EXPERIMENT NO.: BSL - 04

नाम

Name : _____

अनुक्रमांक

Roll No : _____

पाठ्यक्रम

Course : _____

दिनांक

Date : _____

प्राप्तांक

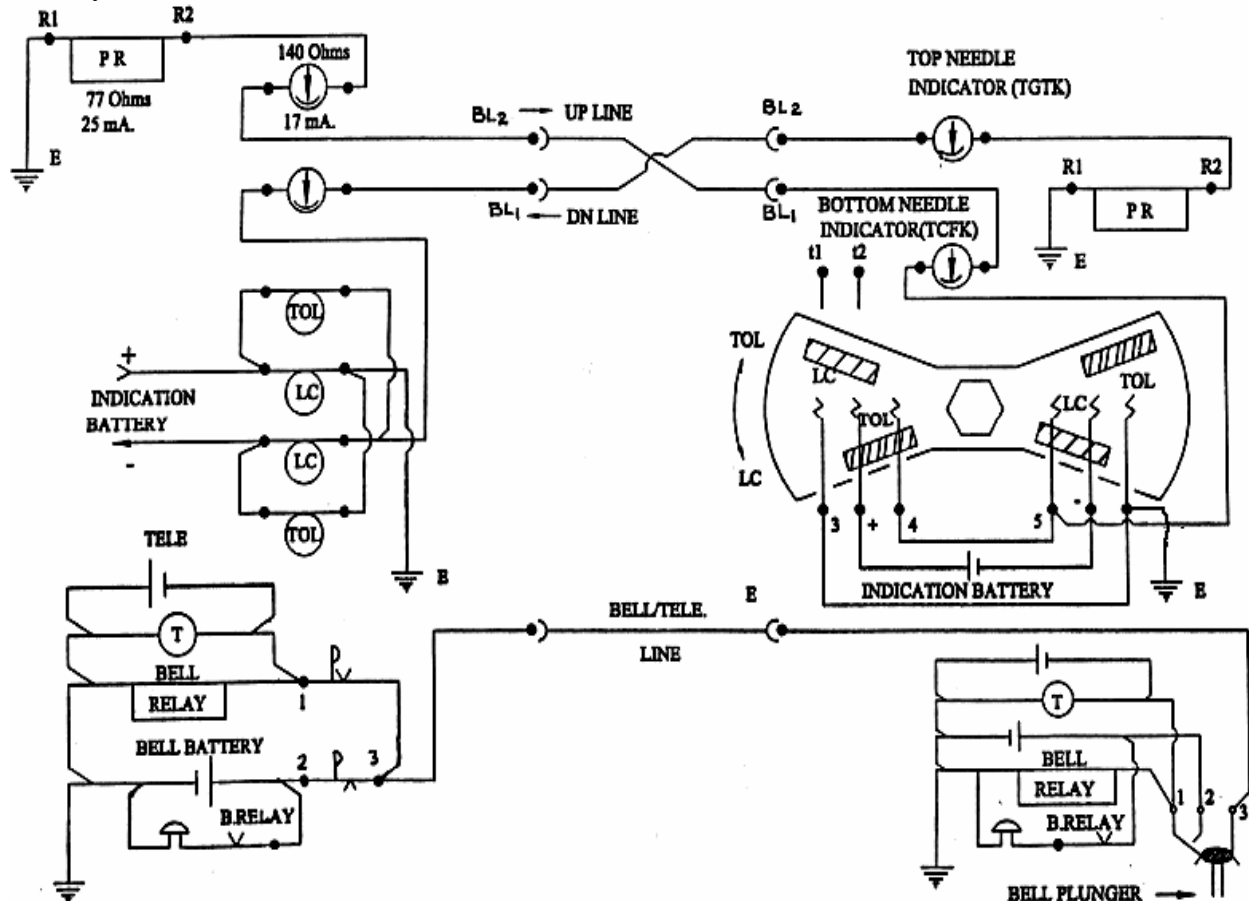
Marks Awarded : _____

अनुदेशक के आयक्षर

Instructor's Initial : _____

STUDY OF DOUBLE LINE BLOCK INSTRUMENT AND ITS CIRCUITS

I. Study the Indication and Bell circuits in the Double Line Block instrument



II. Draw LSS Clearance Circuit:

Study of the LSS circuit for sending a Train from Stn. A to Stn. B.

Answer the following:

- a) When the train enters into the Block section from Stn.A, the LSS is _____ replaced to ON.
The LSS at Stn.A _____ be taken OFF again since _____ relay is de-enerised
(**SR, Automatically, cannot**)
- b) When the Train passes LSS at Stn.A and if Stn.B turns Commutator to Line Closed position instead of TOL position, the LSS at Stn.A _____ be taken _____ again since the _____ relay has not been energized at Stn.A because _____ contact of PR at Stn.A was not made during the previous train operation.
(**OFF, SR, TOL, cannot**)
- c) The lock on the Commutator can be released for turning it from TOL to Line Closed position only after the _____ of the train and _____ of _____ signal knob.
(**Complete arrival, Home, Normalisation**)

III. Draw Block Clearance circuit

Indicate the relay names where required in the given circuit

Study the Block Clearance circuit and answer the following:

- a) How many track circuits are employed in Block clearance circuit and why?
- b) When Train is on AT track, which relay picks up?
- c) When Train is on BT track which relay picks up?
- d) When Train clears both AT and BT which relay picks up?

IV. A comparative study of three types of Double Line Block Instruments:

S.No.	Part	In SGE Block Instrument	In Modified SGE Block Instrument	In IRS type Block Instrument
1.	Contact Arrangement			
2.	Door lock Mechanism			
3.	SM's Lock			
4.	Polarised Relay			
5.	Bell and Telephone			
6.	Manufactured at			
7.	Other features			

V. How Door lock mechanism is eliminated in Modified SGE Block Instrument?

VI. Write number of Line wires required for connecting a pair of Block Instruments

a) In Non RE area:

b) In RE area:

S. No.	Description	Parameter	Remarks
1	Outgoing voltage		
2	Incoming voltage		
3	Outgoing current		
4	Incoming current		

Signature of Trainee