

1. To learn to connect three lamps in parallel.

JOB SHEET

NAME: MEET GALA ROLL NO: 16010121051 BATCH - A3

TIME AND DATE: TODAY'S DATE 10/10/2023

NAME OF EXPERIMENT: Godown Wiring

Job: To learn and implement godown wiring.

Tools Required: Rubber Gloves, goggles, tester, screwdriver, pliers, wire stripper, utility knife.

Equipments and Raw Material: 3 light bulbs (40W), MCB of 120V, One Way switch, 2 Two Way switch (5A) Wires, Fuses.

Procedure:-

Circuit Connection -

- First of all, turn off the main breaker to ensure the main supply is switched OFF
- Connect all the switches to the earthing terminals
- Connect the neutral wire from MCB directly to all the three lamps
- Connect the line (Phase/live) wire to first terminal of SPST Switch
- Connect the first SPDT switch common (middle) terminal to second terminal of SPST switch
- Connect the upper terminal of first SPDT switch to Comp L1
- Connect the lower terminal of 1st SPDT switch to common of second SPDT switch

- Connect the upper and lower terminals of second SPDT switch to the second and third lamps respectively.

Working

- Switch ON the SPST, the first lamp will switch ON
- Switch ON the ~~second~~ first SPDT, the second lamp switch ON and the previous one switches OFF.
- Switch ON the second SPDT, the third lamp switch ON and the previous (second one) lamp switches OFF.
- Switch OFF the last i.e. second SPOT, the second lamp switches ON and the third lamp switches OFF and so on until he reaches to the first SPST switch and the whole circuit can be switch OFF by turning it OFF.

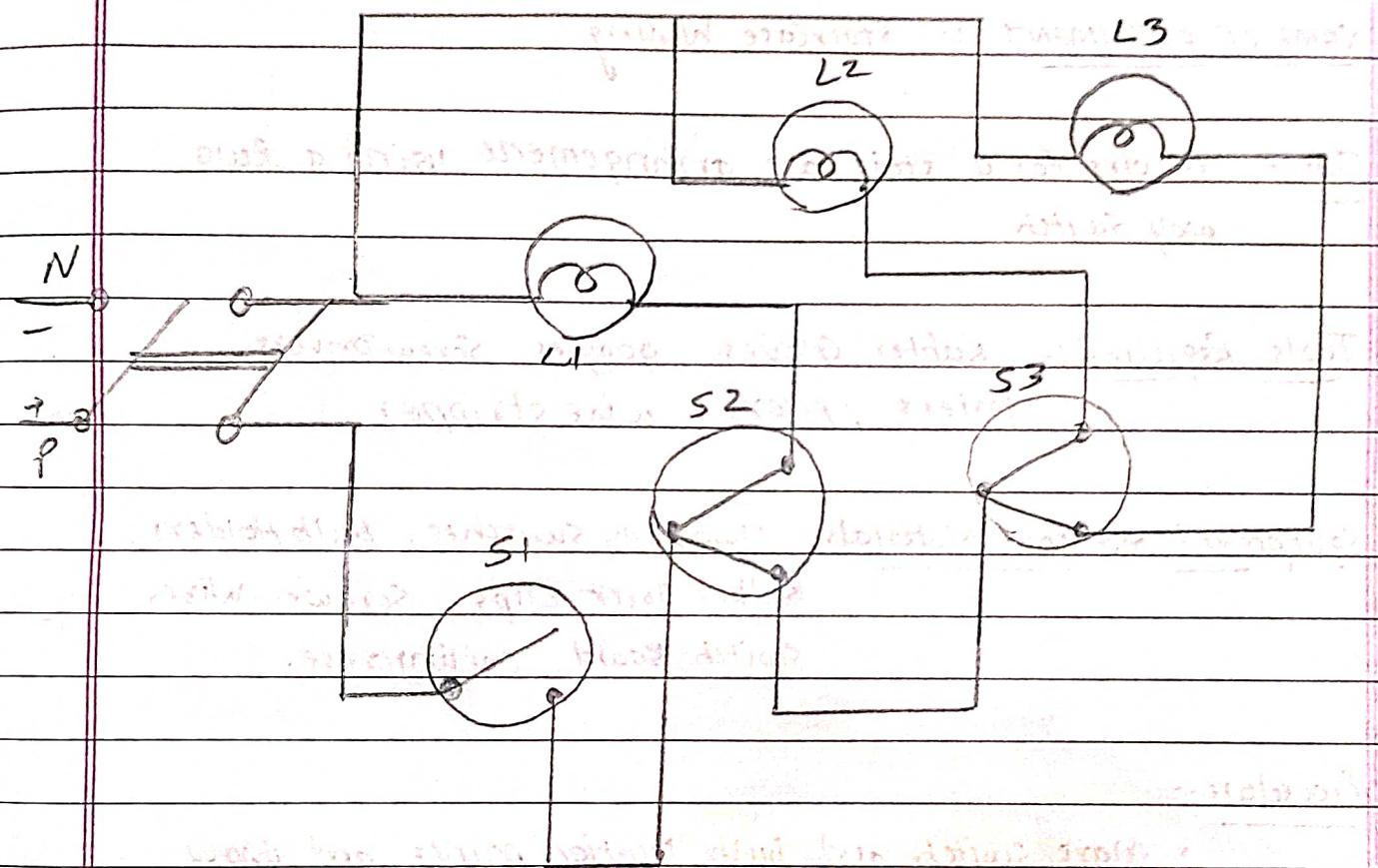
Use:

- It comparatively saves more energy as only one load point is turned ON at a time.
- It is time efficient also.

Conclusion: Connections and working of godown wiring was learned and implemented successfully.

Circuit :-

Lamp A & B



GODOWN WIRING

JOB SHEET

NAME: MEET GALA ROLL NO: 16010121051 BATCH-A3

NAME OF EXPERIMENT :- Staircase wiring

Job :- To wire for a staircase arrangement using a two way switch.

Tools Required:- Rubber Gloves, goggles, Screw Drivers, testers, pliers, wire stripper.

Equipment and Raw Materials:- Two way switches, Bulb Holders, Bulbs, Joint clips, Screws, Wires, Switch Board, ceiling rose.

Procedure:-

- Mark switch and bulb location points and draw lines for wiring on the Wooden board.
- Place wires along the lines and fix them with the help of clips.
- Fix the Two Way switches and the bulb holders at the marked position on the wooden Board.
- Similarly complete the entire Wiring using the circuit diagram.
- Test the working of the bulbs by giving electric supply to the circuit.

Note different cases and conditions when switches are on.

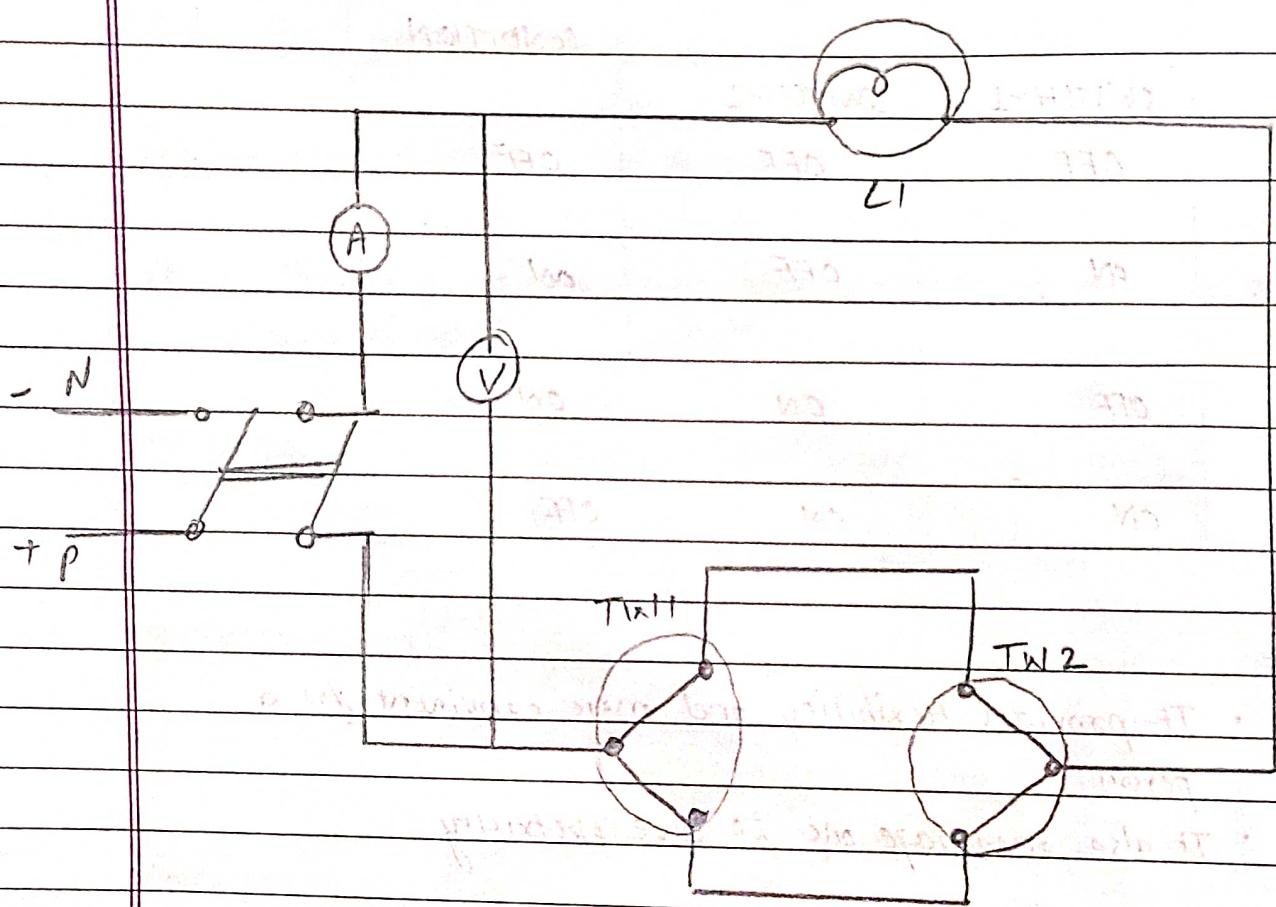
SWITCH POSITION		LAMP CONDITION
SWITCH-1	SWITCH-2	
OFF	OFF	OFF
ON	OFF	ON
OFF	ON	ON
ON	ON	OFF

Use :-

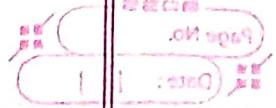
- It provides flexibility and more convenient for a person
- It also encourage one to save electricity

Conclusion : The staircase wiring was completed and tested.

Circuit: *Diagram of a circuit showing how lights are connected.*



STAIR CASE WIRING



Experiment on House wiring at N.I.T. Raipur

16/10/2017

Topic allotted to me is **JOB SHEET** on **House wiring**.

Date to submit job sheet is 17/10/2017.

Name: MEET GALA Roll No: 16010121051 BATCH - A3

Result and Date of experiment not given.

Name of Experiment :- House wiring

Job:- To learn basic house wiring (Using 2 tubelights and bell and a bulb having separate switches for each)

Tools Required :- Screw Driver, cutting pliers, Ball peen hammer, Insulation remover, Tester.

Equipment and Raw Material :- Wooden Wiring Board, silk wire, Electrical Bulbs, one way switches.

Tubelight, wooden round blocks, batten lamp holders, wire clips, screws, Nails.

Procedure:-

- Draw the outline of wiring diagram on wooden wiring Board, nail the clips and screw the round blocks.
- Connect the phase wire coming through the mains to the 1st terminal of fuse and 2nd terminal of fuse is connected to NCB input.
- Output of NCB terminal is connected to 1st terminal of switch 1
- Similarly 2nd terminal of S1 is connected to lamp 2, 1st terminal of S1 is connected to 1st terminal of B1 2nd terminal of B1 is connect to bell & 1st terminal of B1 is connected to 1st terminal of S2

- 2nd Terminal of S2 is connected to ~~regulator~~
B2 (lamp 2)

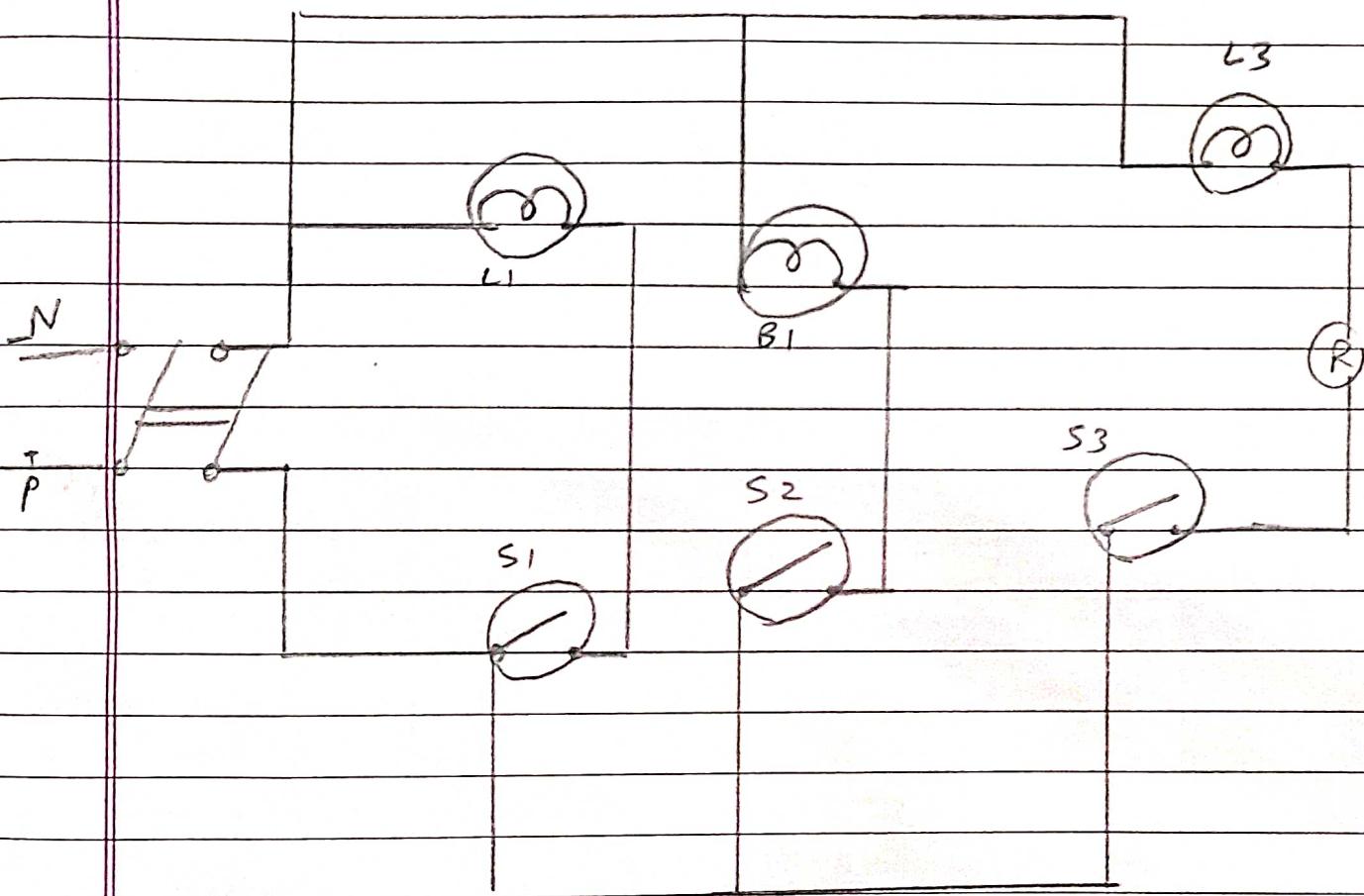
- * Neutral Wire is connected to both the bulbs and bell through the output of NCB
- Thus circuit is connected completed
- check the connections and test them.

Use :-

- Used for basic house wiring of different components in our day to day life.

Conclusion: Learned House Wiring and implemented it successfully.

Circuit:-



HOUSE WIRING.