

SL.NO.	CLASS	PROJECT WORK	COMPONENTS REQUIRED	ANY ADDITIONAL INFORMATION IF REQUIRED
1	6TH	ASSEMBLING A MODEL OF A TABLE LAMP.	a) SWITCH ON/OFF (SPST)=01 b) BULB 6 VOLTS (WITH HOLDER)=01 c) BATTERY BRACKET/ HOLDER TO ACCOMMODATE 04 PENCIL CELL OF 1.5 VOLTS d) WIRE =2-3 METERS e) MATERIAL OUT OF WASTE TO BE USED FOR MAKING STRUCTURE	1. ALL THE STUDENTS HAVE BEEN TOLD AS HOW THE MODEL IS TO BE MADE. THEY CAN USE THEIR CREATIVITY TO MAKE A MODEL. AS FAR CONNECTIONS CONCERN THEY ARE TOLD AND UNDERSTOOD STILL , IF SOME DIFFICULTY, CAN BE CHECKED WHEN SCHOOL RE-OPENS.
2	7TH	STAIRCASE LIGHTING SYSTEM	a) SWITCH (SPDT)=02 b) BULB WITH HOLDER (DC-6 VOLTS =01 c) BATTERY BRACKET/ HOLDER TO ACCOMMODATE 04 PENCIL CELL OF 1.5 VOLTS (=6 VOLTS ) = 01 d) FLEXIBLE WIRE SINGLE CORE =2 TO 3 METER'S e) ANY CARTON/BOX FROM WASTE : 01 f) CHART PAPER TO BE PREPARED FOR ALL THE FOUR POSSIBLE CIRCUITS AND THEIR CURRENT FLOW PATH.	<b>STRICTLY NOT TO INVOLVE ANY SOLDERING IRON WORK OR HIGH VOLTAGE i.e 220 VOLTS. WHILE SELECTING THE COMPONENTS TRY TO GET THE BULB/BATTERY HOLDER SCREW TIGHTENED WHICH DOESN'T NEED SOLDERING. STILL IF YOU FEEL THAT IT HAS TO BE SOLDERED THEN THESE 2-3 POINTS CAN BE CONNECTED IN EG-LAB AFTER VACATION.</b>
3	8TH	SERIES & PARALLEL CIRCUIT	a) . DC BULB 6 VOLTS (WITH HOLDER) = 06 b) BATTERY BRACKET/ HOLDER TO ACCOMMODATE 04 PENCIL CELL OF 1.5 VOLTS = 01 c) SWITCH 2 AMP.( SPDT) = 02 d) FLEXIBLE CIRCUIT WIRE SINGLE CORE = 3 - 4 METER'S e) CHART PAPER TO BE OF GOOD QUALITY ON WHICH INFORMATION ON VOLTAGE & CURRENT AT DIFFERENT POINTS CAN BE SHOWN AND MENTIONED APPROPRIATELY	CHART PAPER IS APART FROM THE MAIN PROJECT WORK <b>STRICTLY NOT TO INVOLVE ANY SOLDERING IRON WORK OR HIGH VOLTAGE i.e 220 VOLTS. WHILE SELECTING THE COMPONENTS TRY TO GET THE BULB/BATTERY HOLDER SCREW TIGHTENED WHICH DOESN'T NEED SOLDERING. STILL IF YOU FEEL THAT IT HAS TO BE SOLDERED THEN THESE 2-3 POINTS CAN BE CONNECTED IN EG-LAB AFTER VACCATION.</b>
4	9TH	RESISTANCE NETWORK IN SERIES & PARALLEL	a) RESISTANCE 1.2 OHMS = 06 b) SWITCH ON/OFF (SPST) = 02 c) BULB 6 VOLTS WITH HOLDER=01 d) BATTERY BRACKET/ HOLDER TO ACCOMMODATE 04 PENCIL CELL OF 1.5 VOLTS = 01 e) CONNECTING WIRE =2-3 METERS	

5	10TH	SEMI CONDUCTOR DIODE	a) DIODE = 01 b) JACK POINTS =02 c) BULB 6 VOLTS WITH HOLDER=01 d) BATTERY BRACKET/ HOLDER TO ACCOMMODATE 04 PENCIL CELL OF 1.5 VOLTS = 01 e) CONNECTING WIRE =2-3 METERS f) <b>PREPARE A FULL SIZE CHART SHOWING  GENERATION OF A DIODE THROUGH INTRINSIC  SEMI CONDUCTOR. ILLUSTRATING P-TYPE,  N-TYPE, DEPLETION LAYER, PN JUNCTION,  FORWARD BIAS &amp; REVERSE BIAS.</b>	<b>STRICTLY NOT TO INVOLVE ANY  SOLDERING IRON WORK OR HIGH  VOLTAGE i.e 220 VOLTS. WHILE  SELECTING THE COMPONENTS TRY  TO GET THE BULB/BATTERY HOLDER  SCREW TIGHTENED WHICH DOESN'T  NEED SOLDERING. STILL IF YOU FEEL  THAT IT HAS TO BE SOLDERED THEN  THESE 2-3 POINTS CAN BE  CONNECTED IN EG-LAB AFTER  VACCATION.</b>
6	11TH	LOGIC GATES AND, OR & NOT	a) MAKE A MODEL USING DIODES IN CERTAIN COMBINATION SO THAT IT SATISFY THE TRUTH TABLE OF AND, OR & NOT GATE. b) <b>PREPARE A  FULL SIZE CHART SHOWING GENERATION OF A  DIODE THROUGH INTRINSIC SEMI  CONDUCTOR. ILLUSTRATING P-TYPE, N-TYPE,  DEPLETION LAYER, PN JUNCTION, FORWARD  BIAS &amp; REVERSE BIAS.</b>	YOU CAN TAKE THE HELP OF NET BUT WRITTEN MATERIAL SHOULD BE HAND WRITTEN. DIFFERENT COULORS CAN BE USED FOR BETTER PRESENTATION.

**FOR STRICT COMPLIANCE:** STRICTLY NOT TO INVOLVE ANY SOLDERING IRON WORK OR HIGH VOLTAGE i.e 220 VOLTS. WHILE SELECTING THE COMPONENTS TRY TO GET THE BULB/BATTERY HOLDER SCREW TIGHTENED WHICH DOESN'T NEED SOLDERING. STILL IF YOU FEEL THAT IT HAS TO BE SOLDERED THEN THESE 2-3 POINTS CAN BE CONNECTED IN EG-LAB AFTER VACCATION.



