

EVALUATION SCHEME
For March-2019 and on words Examinations
STD-X (Level 2)
Electrical Technology (92)

Scheme of Examination:

Sr. No.	Method of Assessment	Weightage of Marks	Evaluator
1	Theory Paper (Written)	30 Marks (80 Marks converted 30 Marks)	School / State Board
2	Practical Exam	30 Marks	Certified Assessor/State Board
3	Term Work (Journal)	10 Mark	School Instructor / Trainer
4	Project Work	10 Mark	School Instructor / Trainer
5	Oral / Viva Vocu	10 Mark	School Instructor / Certified Assessor
6	Direct Observation	10 Mark	School Instructor / Certified Assessor
	Total Marks	100 Marks	

1] Unit wise Marks Distribution of written test paper:

Paper Time: 3 hours

Marks: -80

Sr. No	Unit (Contains)	Mark	Mark With option
1	Repair & Maintenance of heating appliances (Electric Iron/Water heater/Geyser)	05	10
2	Repair & Installation of Electric Bell	05	05
3	Repair & Installation of Electric/Electronic Tube Light	05	05
4	Single Phase transformer-Study & Testing	06	09
5	D.C. Power supply. Assembly & Applications	05	09
6	Solar cell & Power supply. Applications	02	10
7	Repair & Maintenance of Battery & emergency Light	06	06
8	Rules & Installation of Basic house wiring	10	10
9	Installation & Testing of Single phase Motors	06	06
10	Repair & Maintenance of Induction cooker /Hot plate	10	10
11	Engineering Drawing	20	40
	Total Marks	80	120

2] Practical Exam:

• Practical Time	• 3 Hours
• Practical Subject	• As per Electrical Technology practical book
• Any one practical should be given from the text book by lot system to each group / individual.	
• Total Marks of Practical	• 30 Marks

3] Term Work (Journal):

• Term Work (Journal)	• Journal maintained by the students during the academic year.
• Term Work (Journal) Subject	• Electrical Technology
• Total Marks	• 10 Marks

4] Project Work:

<ul style="list-style-type: none">• The project work given in syllabus is only for guideline.• Candidate, with approval from the Instructor / Trainer, may choose any one project and prepare it.• He has full liberty to prepare any useful project other than the mentioned projects.• He may write a visit report about any nearest Industry and their product.• One project should be compulsory for each student or a group of maximum 4 students.	
• Total Marks	• 10 Marks

5] Oral/Viva vocu:	10 Marks
6] Direct Observation:	10 Marks

Written Test Paper - STD-X (Level 2)

Electrical Technology (92)

Question Wise Distribution of Marks.

Sr. No	Types of Questions	Marks	Marks with option
1	Objectives (1 Mark)	20	20
2	Short Answer Type (3 Marks)	12	21
3	Long Answer Type (4 Marks)	12	20
4	Long Answer Type (5 Marks)	10	15
5	Long Answer Type (8 Marks)	16	24
6	Long Answer Type (10 Marks)	10	20
	Total Marks	80	120

Pattern of Question Paper
STD- X (Level-2)
Electrical Technology (92)

Time: 3 hrs.

Marks: 80

- Notes:**
1. All questions are compulsory.
 2. Draw diagrams wherever necessary.
 3. Drawing supplement should be attached to main answer book.

Q. No. 1.A) Select the correct alternative and rewrite the sentence. 5

1.
a) b) c)
2.
a) b) c)
3.
a) b) c)
4.
a) b) c)
5.
a) b) c)

B) Match the following pairs. 5

- | Column 'A' | Column 'B' |
|------------|------------|
| 1. | a) |
| 2. | b) |
| 3. | c) |
| 4. | d) |
| 5. | e) |

C) State the following statement is true or false. 5

- 1.
- 2.
- 3.
- 4.
- 5.

D) Answer the following questions in ONE sentence.

5

- 1.
- 2.
- 3.
- 4.
- 5.

Q. No. 2) Answer the following questions in short. (Any four)

12

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Q. No. 3) Answer the following questions in short. (Any Three)

12

- 1.
- 2.
- 3.
- 4.
- 5.

Q. No. 4) Answer the following questions in brief. (Any Two)

10

- 1.
- 2.
- 3.

Q. No. 5) Answer the following questions in brief. (Any Two)

16

- 1.
- 2.
- 3.

Q. No. 6) Answer the following questions in brief. (Any One)

10

- 1.
- 2.

Pattern of Question Paper
STD- X (Level-2)
Electrical Technology (92)

Time: 3 hrs.

Marks: 80

- Notes:**
1. All questions are compulsory.
 2. Draw diagrams wherever necessary.
 3. Drawing supplement should be attached to main answer book.

Q. No. 1.A) Select the correct alternative and rewrite the sentence 5

1. Repair & Maintenance of heating appliances (Electric Iron/Water heater/Geysler)
a) b) c)
2. Repair & Installation of Electric/Electronic Tube Light
a) b) c)
3. Solar cell & Power supply Applications
a) b) c)
4. Repair & Maintenance of Battery & emergency Light
a) b) c)
5. Installation & Testing of Single Phase Motors
a) b) c)

B) Match the following pairs. 5

- | Column 'A' | Column 'B' |
|--|------------|
| 1. Repair & Installation of Electric Bell | a) |
| 2. Repair & Installation of Electric/Electronic Tube Light | b) |
| 3. Single Phase Transformer-Study & Testing | c) |
| 4. Rules & Installation of Basic house wiring | d) |
| 5. Repair & Maintenance of Induction cooker /Hot plate | e) |

C) State the following statement is true or false. 5

1. Repair & Maintenance of heating appliances (Electric Iron/Water heater/Geysler)
2. Repair & Installation of Electric Bell
3. Single Phase Transformer-Study & Testing
4. D.C. Power supply. Assembly & Applications
5. Rules & Installation of Basic house wiring

D) Answer the following questions in ONE sentence. 5

1. Solar cell & Power supply. Applications
2. Repair & Maintenance of Battery & emergency Light
3. D.C. Power supply. Assembly & Applications
4. Installation & Testing of Single Phase Motors
5. Repair & Maintenance of Induction cooker /Hot plate

- Q. No. 2) Answer the following questions in short. (Any four) 12
1. Repair & Maintenance of heating appliances (Electric Iron/Water heater/Geyser)
 2. Repair & Installation of Electric Bell
 3. Repair & Installation of Electric/Electronic Tube Light
 4. Single Phase Transformer-Study & Testing
 5. D.C. Power supply. Assembly & Applications
 6. Engineering Drawing (Electrical Symbols)
 7. Engineering Drawing (Auto CAD)
- Q. No. 3) Answer the following questions in short. (Any Three) 12
1. Single Phase Transformer-Study & Testing
 2. Repair & Maintenance of Battery & emergency Light
 3. Installation & Testing of Single Phase Motors
 4. D.C. Power supply. Assembly & Applications
 5. Engineering Drawing (Auto CAD)
- Q. No. 4) Answer the following questions in brief. (Any two) 10
1. Repair & Maintenance of heating appliances (Electric Iron/Water heater/Geyser)
 2. Engineering Drawing (Free hand Sketches of wiring diagram /Auto CAD)
 3. Engineering Drawing (Free hand sketch of D.C. machine parts /elect. Accessories)
- Q. No. 5) Answer the following questions in brief. (Any two) 16
1. Solar cell & Power supply. Applications
 2. Rules & Installation of Basic house wiring
 3. Repair & Maintenance of Induction cooker /Hot plate
- Q. No. 6) Answer the following questions in brief. (Any one) 10
1. Engineering Drawing (Orthographic Projection without curve)
 2. Engineering Drawing (Isometric View without curve)

STD-X (Level-2)

Blue Print of Unit wise Marks Distribution

Electrical Technology (92)

S.N.	Units	Knowledge						Understanding						Application						Total Marks	Total Marks with options
		OB		S.A		L.A.		OB		S.A		L.A.		OB		S.A		L.A.			
		Mark	Questions	Mark	Questions	Mark	Questions	Mark	Questions	Mark	Questions	Mark	Questions	Mark	Questions	Mark	Questions	Mark	Questions		
1	Repair & Maintenance of heating appliances (Electric Iron/Water heater/Geysar)	1	1	3	1	5	1	1	1											5	10
2	Repair & Installation of Electric Bell	1	1					1	1	3	1									5	5
3	Repair & Installation of Electric/Electronic Tube Light	1	1					1	1						3	1				5	5
4	Single Phase transformer-Study & Testing	1	1			4	1	1	1						3	1				6	9
5	D.C. Power supply. Assembly & Applications	1	1					1	1	3	1						4	1		5	9
6	Solar cell & Power supply. Applications	1	1									8	1	1	1					2	10
7	Repair & Maintenance of Battery & emergency Light	1	1			4	1							1	1					6	6
8	Rules & Installation of Basic house wiring	1	1			8	1							1	1					10	10
9	Installation & Testing of Single phase Motors	1	1											1	1			4	1	6	6
10	Repair & Maintenance of Induction cooker /Hot plate	1	1											1	1			8	1	10	10
11	Engineering Drawing			3	2	10	1					10	1			4	1	5	2	20	40
		1	10	3	3	10	1	1	5	3	2	10	1	1	5	3	2	5	2		71
						8	1					8	1			4	1	8	1		28
						5	1											4	2		13
						4	2														8
																				80	120

Note _O .B-Objective, S.A- Short answer type (3 Marks),

L.A.- Long answer type (4 Marks & 5 Marks & 8 Marks & 10 Marks)

