

**EVALUATION SCHEME**  
For March-2021 and on words Examination  
STD-XII

**Field Technician- Wireman Control Panel (E-3)**  
**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
	<b>Total Marks</b>	<b>100 Marks</b>	

**1] Unit wise Marks Distribution of written test paper:**

Paper Time: 3 hours

Marks: -80

Sr. No	Unit (Contains)	Mark	Mark With option
1	Communication Skills	04	07
2	Self Management Skills	03	07
3	Basic ICT Skills	03	06
4	Entrepreneurial Skills	06	06
5	Green Skills	04	04
6	Generation, Transmission & Distribution of Electrical Power	13	19
7	Installation and Troubleshooting Electrical Control Panel	18	27
8	A.C. Drive, PLC & Switch Board Control Panel	15	22
9	Testing & Meaasurement In Electrical Panel	10	18
10	Safety Measures & Hazard	04	04
	<b>Total</b>	<b>80</b>	<b>120</b>

## 2] Practical Exam:

<ul style="list-style-type: none"><li>• <b>Practical Time</b></li></ul>	<ul style="list-style-type: none"><li>• <b>3 Hours</b></li></ul>
<ul style="list-style-type: none"><li>• Practical Subject</li></ul>	<ul style="list-style-type: none"><li>• As per Electronics &amp; Hardware Installation Technician practical book</li></ul>
<ul style="list-style-type: none"><li>• Any one practical should be given from the text book by lot system to each group / individual.</li></ul>	
<ul style="list-style-type: none"><li>• <b>Total Marks of Practical</b></li></ul>	<ul style="list-style-type: none"><li>• <b>30 Marks</b></li></ul>

## 3] Term Work (Journal):

<ul style="list-style-type: none"><li>• Term Work (Journal)</li></ul>	<ul style="list-style-type: none"><li>• Journal maintained by the students during the academic year.</li></ul>
<ul style="list-style-type: none"><li>• Term Work (Journal) Subject</li></ul>	<ul style="list-style-type: none"><li>• Electronics &amp; Hardware Installation Technician</li></ul>
<ul style="list-style-type: none"><li>• <b>Total Marks</b></li></ul>	<ul style="list-style-type: none"><li>• <b>10 Marks</b></li></ul>

## 4] Project Work:

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

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

**Written Test Paper - STD-XII**  
**Field Technician- Wireman Control Panel (E-3)**  
**Question Wise Distribution of Marks.**

<b>Sr. No</b>	<b>Types of Questions</b>	<b>Marks</b>	<b>Marks with option</b>
1	Objectives (1 Mark)	20	20
2	Short Answer Type (3 Marks)	24	36
3	Long Answer Type (4 Marks)	24	40
4	Long Answer Type (6 Marks)	12	24
	<b>Total Marks</b>	<b>80</b>	<b>120</b>

**Pattern of Question Paper**  
**STD- XII**  
**Field Technician- Wireman Control Panel (E-3)**

Time: 3 hrs.

Marks: 80

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- Notes:**
1. All questions are compulsory.
  2. Draw diagrams wherever necessary.

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

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

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 and rewrite the correct statements.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.	
Q. No. 3) Answer the following questions in short. (Any four)	12
1.	
2.	
3.	
4.	
5.	
6.	
Q. No. 4) Answer the following questions in brief. (Any three)	12
1.	
2.	
3.	
4.	
5.	
Q. No. 5) Answer the following questions in brief. (Any three)	12
1.	
2.	
3.	
4.	
5.	
Q. No. 6.A) Answer any one questions in brief.	06
1.	
2.	
Q. No. 6.A) Answer any one questions in brief.	06
1.	
2.	

# Pattern of Question Paper

## STD- XII Field Technician- Wireman Control Panel (E3)

Time: 3 hrs.

Marks: 80

- Notes:**
1. All questions are compulsory.
  2. Draw diagrams wherever necessary.

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

1. Self Management Skills

- a) ..... b) ..... c) ..... d).....

2. Entrepreneurial Skills

- a) ..... b) ..... c) ..... d).....

3. Generation, Transmission & Distribution of Electrical Power

- a) ..... b) ..... c) ..... d).....

4. Installation and Troubleshooting Electrical Control Panel

- a) ..... b) ..... c) ..... d).....

5. Testing & Measurement In Electrical Panel

- a) ..... b) ..... c) ..... d).....

B) Match the following pairs. 5

Column 'A'

Column 'B'

- |   |     |
|---|-----|
| 1 Self Management Skills                                    | (a) |
| 2 Generation, Transmission & Distribution(b)                |     |
| 3 Installation and Troubleshooting Electrical Control Panel | (c) |
| 4 A.C. Drive, PLC & Switch Board Control Panel              | (d) |
| 5 Green Skills  | (e) |

C) State the following statement is true or false and rewrite the correct statements. 5

1 Entrepreneurial Skills

2 Testing & Measurement In Electrical Panel

3 Generation, Transmission & Distribution

4 A.C. Drive, PLC & Switch Board Control Panel

5 Installation and Troubleshooting Electrical Control Panel

D) Answer the following questions in ONE sentence. 5

1 Entrepreneurial Skills

2 Self Management Skills

3 Installation and Troubleshooting Electrical Control Panel

4 Generation, Transmission & Distribution  
5 Installation and Troubleshooting Electrical Control Panel

- Q. No. 2) Answer the following questions in short. (Any four) 12
1. Basic ICT Skills
  2. A.C. Drive, PLC & Switch Board Control Panel
  3. Generation, Transmission & Distribution
  4. Communication Skills
  5. Generation, Transmission & Distribution
  6. Installation and Troubleshooting Electrical Control Panel
- Q. No. 3) Answer the following questions in short. (Any four) 12
1. Entrepreneurial Skills
  2. Green Skills
  3. A.C. Drive, PLC & Switch Board Control Panel
  4. Generation, Transmission & Distribution
  5. Basic ICT Skills
  6. Installation and Troubleshooting Electrical Control Panel
- Q. No. 4) Answer the following questions in brief. (Any three) 12
1. A.C. Drive, PLC & Switch Board Control Panel
  2. Testing & Measurement In Electrical Panel
  1. Communication Skills
  3. Installation and Troubleshooting Electrical Control Panel
  4. Testing & Measurement In Electrical Panel
- Q. No. 5) Answer the following questions in brief. (Any three) 12
2. Testing & Measurement In Electrical Panel
  3. A.C. Drive, PLC & Switch Board Control Panel
  4. Safety Measures & Hazard
  5. Testing & Measurement In Electrical Panel
  6. Self Management Skills
- Q. No. 6 A) Answer any one questions in brief. 06
1. Installation and Troubleshooting Electrical Control Panel
  2. Generation, Transmission & Distribution
- Q. No. 6 B) Answer any one questions in brief. 06
1. A.C. Drive, PLC & Switch Board Control Panel
  2. Installation and Configuration of Windows Server

## STD-XII

### Field Technician- Wireman Control Panel (E-3)

SR.NO	Units	Knowledge						Understanding						Application						Total Marks	Total Marks with option	
		OB		SA		LA		OB		SA		LA		OB		SA		LA				
		Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions	Marks	Questions			
1	Communication Skills												4	1			3	1			04	07
2	Self Management Skills	1	1					1	1						1	1			4	1	03	07
3	Basic ICT Skills									3	1						3	1			03	06
4	Entrepreneurial Skills	1	1	3	1			1	1						1	1					06	06
5	Green Skills							1	1	3	1										04	04
6	Generation, Transmission & Distribution of Electrical Power	1	2	3	1			1	2	3	1						3	1	6	1	13	19
7	Installation and Troubleshooting Electrical Control Panel	1	1			4	1	1	2	3	1	6	1	1	2	3	1	6	1	18	27	
8	A.C. Drive, PLC & Switch Board Control Panel							1	1	3	1	6	1	1	1	3	1	4	2	15	22	
9	IT Security Fundamentals	1	1			4	2	1	1			4	1					4	1	10	18	
10	Basics of ITIL V3											4	1							04	04	
		1	6	3	2	4	3	1	9	3	5	4	3	1	5	3	5	4	4	80	120	
												6	2				6	2				



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**Note:** O.B – Objective.

S.A.- Short answer type (3marks)

L.A.- Long answer type (4 marks &6 marks)

Underlined marks are used for option.