

EVALUATION SCHEME
For March-2022 and on words Examination
STD-XII

Electronics-Field Technician Wireman Control Panel (F6)

Scheme of Examination:

Sr. No.	Method of Assessment	Weight age 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	Communication Skills-IV	04	07
2	Self Management Skills -IV	04	07
3	Basic ICT Skills-IV	04	08
4	Entrepreneurial Skills-IV	04	04
5	Green Skills-IV	04	04
6	Generation ,Transmission and distribution of Electrical Power	12	22
7	Installation and Troubleshooting Electrical Control Panel	16	24
8	AC Drive, PLC and Switchboard in Control Panel	14	20
9	Testing and Measurement in Electrical Panel	12	18
10	Safety Measures and Hazard	06	06
	Total	80	120

2] Practical Exam:

• Practical Time	• 3 Hours
• Practical Subject	• As per Electronics-Field Technician-Wireman Control Panel 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	• Electronics-Field Technician- Wireman Control Panel
• 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-XII

Electronics & Hardware

Field Technician

Wireman Control Panel (F6)

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)	24	36
3	Long Answer Type (4 Marks)	24	40
4	Long Answer Type (6 Marks)	12	24
	Total Marks	80	120

Pattern of Question Paper
STD- XII
Electronics & Hardware Field Technician Wireman
Control Panel (F6)

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. Communication Skills-IV
a) b) c) d).....
2. Entrepreneurial Skills-IV
a) b) c) d).....
3. Generation ,Transmission and distribution of Electrical Power
a) b) c) d).....
4. Installation and Troubleshooting Electrical Control Panel
a) b) c) d).....
5. Safety Measures and Hazard
a) b) c) d).....

B) Match the following pairs. 5

- | Column 'A' | Column 'B' |
|---|------------|
| 1 Entrepreneurial Skills-IV | a) |
| 2 Installation and Troubleshooting Electrical Control Panel | b) |
| 3 Communication Skills-IV | c) |
| 4 Testing and Measurement in Electrical Panel | d) |
| 5 Generation ,Transmission and distribution of Electrical Power | e) |

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

- 1 Communication Skills-IV
- 2 Entrepreneurial Skills-IV
- 3 Installation and Troubleshooting Electrical Control Panel
- 4 AC Drive, PLC and Switchboard in Control Panel
- 5 Safety Measures and Hazard

D) Answer the following questions in ONE sentence. 5

- 1 AC Drive, PLC and Switchboard in Control Panel

- 2 Entrepreneurial Skills-IV
- 3 Communication Skills-IV
- 4 Safety Measures and Hazard
- 5 Testing and Measurement in Electrical Panel

Q. No. 2) Answer the following questions in short. (Any four) 12

1. Self Management Skills-IV
2. Communication Skill-IV
3. Generation ,Transmission and distribution of Electrical Power
4. AC Drive, PLC and Switchboard in Control Panel
5. Testing and Measurement in Electrical Panel
6. AC Drive, PLC and Switchboard in Control Panel

Q. No. 3) Answer the following questions in short. (Any four) 12

1. Generation ,Transmission and distribution of Electrical Power
2. AC Drive, PLC and Switchboard in Control Panel
3. Testing and Measurement in Electrical Panel
4. Safety Measures and Hazard
5. AC Drive, PLC and Switchboard in Control Panel
6. Installation and Troubleshooting Electrical Control Panel

Q. No. 4) Answer the following questions in brief. (Any three) 12

1. Self Management Skills-IV
2. Testing and Measurement in Electrical Panel
3. Installation and Troubleshooting Electrical Control Panel
4. Basic ICT Skills-IV
5. Generation Transmission and distribution of Electrical Power

Q. No. 5) Answer the following questions in brief. (Any three) 12

1. Installation and Troubleshooting Electrical Control Panel
2. Basic ICT Skills-IV
3. Green Skills-IV
4. Installation and Troubleshooting Electrical Control Panel
5. Generation Transmission and distribution of Electrical Power

Q. No. 6 A) Answer any ONE questions in brief. 06

1. Generation Transmission and distribution of Electrical Power
2. Installation and Troubleshooting Electrical Control Panel

Q. No. 6 B) Answer any ONE questions in brief. 06

1. Testing and Measurement in Electrical Panel
2. AC Drive, PLC and Switchboard in Control Panel

STD-XII

**Blue Print of Unit wise Marks Distribution
Electronics & Hardware**

Field Technician Wireman Control Panel (F6)

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-IV	1	1					1	1	<u>3</u>	<u>1</u>			1	2					04	07
2	Self Management Skills-IV											4	1			<u>3</u>	<u>1</u>			04	07
3	Basic ICT Skills-IV					<u>4</u>	<u>1</u>											4	1	04	08
4	Entrepreneurial Skills-IV	1	1					1	2					1	1					04	04
5	Green Skills-IV											4	1							04	04
6	Generation, Transmission and distribution of Electrical Power	1	1	<u>3</u>	<u>1</u>					<u>3</u>	<u>1</u>	4	1	1	1			<u>4</u>	<u>1</u>	12	22
7	Installation and Troubleshooting Electrical Control Panel	1	1	3	1	<u>4</u>	<u>1</u>					<u>4</u>	<u>1</u>	1	2			4	1	16	24
8	AC Drive, PLC and Switchboard in Control Panel	1	1							3	2	<u>6</u>	<u>1</u>	1	1	3	2			14	20
9	Testing and Measurement in Electrical Panel	1	1	3	1			1	1	3	1							<u>4</u>	<u>1</u>	12	18
10	Safety Measures and Hazard	1	1					1	2							3	1			06	06
		1	7	3	3	4	2	1	6	3	5	4	4	1	7	3	4	4	4	80	120

Note: O.B – Objective.

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

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

Underlined marks are used for option.