

# CBSE | DEPARTMENT OF SKILL EDUCATION

## ELECTRICAL TECHNOLOGY (SUBJECT CODE 819)

CLASS XII (SESSION 2021-2022)  
BLUE-PRINT FOR SAMPLE QUESTION PAPER FOR TERM - II

Max. Time Allowed: 1½ Hours (90 min)

Max. Marks: 30

### PART A - EMPLOYABILITY SKILLS (05 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS - VSA (1 MARK EACH)	NO. OF QUESTIONS - SA (2 MARKS EACH)	NO. OF QUESTIONS - LA (4 MARKS EACH)	TOTAL NUMBER OF QUESTIONS
1	Unit 4 : Entrepreneurial Skills-IV	2	1	-	3
2	Unit 5 : Green Skills-IV	2	1	-	3
<b>TOTAL QUESTIONS</b>		<b>4</b>	<b>2</b>	<b>-</b>	<b>06</b>
<b>NO. OF QUESTIONS TO BE ANSWERED</b>		<b>Any 3</b>	<b>Any 1</b>	<b>-</b>	<b>04</b>
<b>TOTAL MARKS</b>		<b>3 x 1 = 3 Marks</b>	<b>1 x 2 = 2 Marks</b>	<b>-</b>	<b>05 Marks</b>

### PART B - SUBJECT SPECIFIC SKILLS (25 MARKS):

UNIT NO.	NAME OF THE UNIT	NO. OF QUESTIONS - VSA (1 MARK EACH)	NO. OF QUESTIONS - SA - I (2 MARKS EACH)	NO. OF QUESTIONS - SA - II (3 MARKS EACH)	NO. OF QUESTIONS - LA (4 MARKS EACH)	TOTAL NUMBER OF QUESTIONS
3	Single Phase AC Motor	1	-	1	-	2
4	Three Phase Induction Motor	1	1	1	-	3
5	Measuring Instruments	1	1	-	1	3
6	Electrical Appliances	4	3	2	2	11
<b>TOTAL QUESTIONS</b>		<b>07</b>	<b>05</b>	<b>04</b>	<b>03</b>	<b>19</b>
<b>NO. OF QUESTIONS TO BE ANSWERED</b>		<b>05</b>	<b>03</b>	<b>02</b>	<b>02</b>	<b>12</b>
<b>TOTAL MARKS</b>		<b>5 x 1 = 05 Marks</b>	<b>3 x 2 = 06 Marks</b>	<b>2 x 3 = 06 Marks</b>	<b>2 x 4 = 08 Marks</b>	<b>25 Marks</b>

**TOTAL MARKS****05 (Part A) + 25 (Part B) = 30 MARKS**

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**CLASS XII (SESSION 2021-2022)  
SAMPLE QUESTION PAPER FOR TERM - II**

**Max. Time Allowed: 1 ½ Hours (90 min)****Max. Marks: 30****General Instructions:**

1. Please read the instructions carefully
2. This Question Paper is divided into 03 sections, viz., Section A, Section B and Section C.
3. Section A is of 05 marks and has 06 questions on Employability Skills.
  - a) Questions numbers 1 to 4 are one mark questions. Attempt any three questions.
  - b) Questions numbers 05 and 06 are two marks questions. Attempt any one question.
4. Section B is of 17 marks and has 16 questions on Subject specific Skills.
  - a) Questions numbers 7 to 13 are one mark questions. Attempt any five questions.
  - b) Questions numbers 14 to 18 are two marks questions. Attempt any three questions.
5. Section C is of 08 marks and has 03 competency-based questions.
  - a) Questions numbers 19 to 21 are four marks questions. Attempt any two questions.
6. Do as per the instructions given in the respective sections.
7. Marks allotted are mentioned against each section/question.

### **SECTION A**

**(3 + 2 = 5 marks)**

<b>Answer any 03 questions out of the given 04 questions</b>		<b>1 x 3 = 3</b>
<b>Q.1</b>	What is Entrepreneurship Mindset?	<b>1</b>
<b>Q.2</b>	Name any two tendencies which can influence our personality.	<b>1</b>
<b>Q.3</b>	What do you mean by Eco-friendly material?	<b>1</b>
<b>Q.4</b>	How can we reduce greenhouse gas emission?	<b>1</b>
<b>Answer any 01 question out of the given 02 questions</b>		<b>1 x 2 = 2</b>
<b>Q.5</b>	List some green jobs in the field of Solar and Wind power.	<b>2</b>
<b>Q.6</b>	Which quality and capacity are included in entrepreneurship? Give any four.	<b>2</b>

**SECTION B****(5 + 6 + 6 = 17 marks)**

<b>Answer any 05 questions out of the given 07 questions</b>		<b>1 x 5 = 5</b>
<b>Q.7</b>	_____ motor will develop high starting torque. (Capacitor Start Motor/Shaded Pole Motor)	<b>1</b>
<b>Q.8</b>	Blower is used in _____ (room cooler/desert cooler)	<b>1</b>
<b>Q.9</b>	A small voltage of _____ can cause death (6 V/ 110V)	<b>1</b>
<b>Q.10</b>	Megger is used to measure _____ resistance (low/high)	<b>1</b>
<b>Q.11</b>	By interchanging supply terminals, direction of rotation of a motor _____ (be changed / not be changed)	<b>1</b>
<b>Q.12</b>	Industry usually employs _____ motors (synchronous/ induction)	<b>1</b>
<b>Q.13</b>	Lamps and tubes are connected in _____ with supply in India (series / parallel)	<b>1</b>
<b>Answer any 03 questions out of the given 05 questions</b>		<b>2 x 3 = 6</b>
<b>Q.14</b>	Write precautions while working on an Immersion Rod.	<b>2</b>
<b>Q.15</b>	Can we use ammeter as a volt meter? Explain.	<b>2</b>
<b>Q.16</b>	Describe in brief the Schafer's Method for artificial respiration.	<b>2</b>
<b>Q.17</b>	Write possible faults and its remedies of electric mixer.	<b>2</b>
<b>Q.18</b>	What is the work of commutator?	<b>2</b>
<b>Answer any 02 questions out of the given 04 questions</b>		<b>3 x 2 = 6</b>
<b>Q.19</b>	Explain the working of room cooler with its diagram.	<b>3</b>
<b>Q.20</b>	Define single phase AC motor with its types.	<b>3</b>
<b>Q.21</b>	Explain the working principle of three phase induction motor with its parts also.	<b>3</b>
<b>Q.22</b>	Explain the process of working a universal motor with diagram.	<b>3</b>

**SECTION C**  
**(COMPETENCY BASED QUESTIONS)**

**(2 x 4 = 8 marks)**

<b>Answer any 02 questions out of the given 03 questions</b>		
<b>Q.23</b>	Explain the working of digital multi meter with its block diagram.	<b>4</b>
<b>Q.24</b>	Explain different kinds of fault which may occur in various domestic appliances.	<b>4</b>
<b>Q.25</b>	With the help of a diagram, explain the construction and working of an electric geyser.	<b>4</b>