

Version No.			

ROLL NUMBER						



0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

Answer Sheet No. \_\_\_\_\_

Sign. of Candidate \_\_\_\_\_

Sign. of Invigilator \_\_\_\_\_

**Industrial Electrician SSC–II**  
**SECTION – A (Marks 06)**  
**Time allowed: 10 Minutes**

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. **Do not use lead pencil.**

**Q.1 Fill the relevant bubble for each part. All parts carry one mark.**

- (1) According to electricity rule, this voltage higher is called “high voltage”:  
 A. 220 V  B. 440 V   
 C. 650 V  D. 1100 V
- (2) The most valuable tool used by the estimators for electrical estimation is:  
 A. Tape measure  B. Map measure   
 C. Architect scale  D. Tally
- (3) In a three phase system we have minimum conductors:  
 A. 2  B. 3   
 C. 4  D. 5
- (4) Earthing of electrical equipment is necessary for the protection against:  
 A. Overloading   
 B. Voltage fluctuation   
 C. Danger of electric shock   
 D. High Conductor Temperature
- (5) A wattmeter is an instrument used to measure:  
 A. Current  B. Resistance   
 C. Power  D. Continuity
- (6) A Megger is an instrument used to measure:  
 A. Insulation resistance  B. Leakage current   
 C. Flux  D. Conductance



Federal Board SSC-II Examination  
Industrial Electrician  
(Curriculum 2021)

Time allowed: 2.00 hours

Total Marks: 24

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Note: Answer any seven parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

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**SECTION – B (Marks 14)**

Q.2 Attempt any **SEVEN** parts from the following. All parts carry equal marks. Be brief and to the point. (7 × 2 = 14)

- i. When Pakistan electricity rules were imposed and to which these are applicable?
- ii. Describe electrical wiring diagram.
- iii. What is meant by load calculation?
- iv. What is Meggar?
- v. Define fuse.
- vi. Write two differences between HBC and MCB.
- vii. Explain interpretation of drawing.
- viii. Differentiate between ammeter and voltmeter.
- ix. Define breaking capacity of circuit breaker.
- x. Explain causes of faults in wiring.

**SECTION – C (Marks 10)**

**Note:** Attempt any **TWO** questions. All questions carry equal marks. (2×5 = 10)

**Q. 3** Calculate (a) Material cost estimation (b) Labour cost estimation.

**Q. 4** Explain 3-phase industrial wiring.

**Q. 5** How earth provides protection against electric shock? explain with the help of neat sketch.

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