

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 _____

Applied 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) A motor converts electrical energy into _____ energy.
- | | | | |
|---------------|-----------------------|-----------------|-----------------------|
| A. Electrical | <input type="radio"/> | B. Mechanical | <input type="radio"/> |
| C. Chemical | <input type="radio"/> | D. Any of above | <input type="radio"/> |
- (2) Faraday introduced the law of:
- | | | | |
|------------------------------|-----------------------|----------------|-----------------------|
| A. Inertia | <input type="radio"/> | B. Gravitation | <input type="radio"/> |
| C. Electromagnetic Induction | <input type="radio"/> | D. Motion | <input type="radio"/> |
- (3) A sinusoidal AC voltage which undergoes 100 reversals of polarity per second has a frequency of _____ Hz.
- | | | | |
|-------|-----------------------|--------|-----------------------|
| A. 50 | <input type="radio"/> | B. 60 | <input type="radio"/> |
| C. 70 | <input type="radio"/> | D. 100 | <input type="radio"/> |
- (4) A transformer can operate with:
- | | | | |
|-----------------|-----------------------|------------------|-----------------------|
| A. DC | <input type="radio"/> | B. AC | <input type="radio"/> |
| C. Both AC & DC | <input type="radio"/> | D. Sinewave only | <input type="radio"/> |
- (5) UPS stands for:
- | | |
|---------------------------------|-----------------------|
| A. Universal power system | <input type="radio"/> |
| B. Unique power supply | <input type="radio"/> |
| C. Uninterruptible power supply | <input type="radio"/> |
| D. Uninterruptable power system | <input type="radio"/> |
- (6) CCTV stands for:
- | | |
|---------------------------------|-----------------------|
| A. Circuit close television | <input type="radio"/> |
| B. Close connected television | <input type="radio"/> |
| C. Closed circuit television | <input type="radio"/> |
| D. Circuit connected television | <input type="radio"/> |



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

Time allowed: 2.00 hours

Total Marks: 24

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.

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. Define the Principle of DC motor.
- ii. Define shunt generator.
- iii. Define frequency of an AC wave.
- iv. What do you understand by maximum or peak value of an AC signal?
- v. What do you understand by mutual inductance?
- vi. Define Impedance and write its unit.
- vii. Define safety, security and communication system.
- viii. Define fire alarm system.
- ix. Define CV.
- x. Define job portal.

SECTION – C (Marks 10)

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

Q. 3 Define the types of generator.

Q. 4 Draw the block diagram of the power back up system and explain briefly.

Q. 5 Prove the following relations:

(i) $X_L = 2\pi fL$ (ii) $X_C = \frac{1}{2\pi fC}$
