MOTOR WINDING  SSC-II

SECTION – A (Marks 08)

Time allowed: 20 Minutes

NOTE: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 20 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q. 1 Circle the correct option i.e. A / B / C / D. Each part carries one mark.

(i) Rotor of Squirrel cage induction motor is made:
A. Layer by layer  B. Solid
C. Round         D. Square

(ii) Which instrument is used to measure the size of wire?
A. Caliper      B. Armature
C. Standard wire gauge  D. Mager

(iii) How many kinds of circuit breakers are there?
A. One  B. Two
C. Four  D. Six

(iv) Which relay works with heat?
A. Current relay  B. Hot wire relay
C. Voltage relay  D. Electronic relay

(v) A conductor with one or more turns is called:
A. Coil  B. Conductor
C. Coil group  D. Pitch

(vi) How many parts of alternator are there?
A. Two  B. Four
C. Six  D. Eight

(vii) How many ways of rectification are there?
A. One  B. Two
C. Three  D. Four

(viii) How many diodes are used in full wave rectification?
A. One  B. Two
C. Three  D. Four

For Examiner's use only:

Total Marks: 08

Marks Obtained: ____________
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QUESTION: 20 Marks

Duration: 1 hour (40 minutes)

Instructions: You are to answer four questions. Each question is worth 5 marks.

1. What is the role of light in photosynthesis? (5 marks)

2. Discuss the importance of soil fertility in crop production. (5 marks)

3. Explain the process of pollination in flowering plants. (5 marks)

4. How do hormones affect plant growth and development? (5 marks)

5. Describe the role of water in plant metabolism. (5 marks)

6. What is the significance of temperature in plant growth? (5 marks)

7. Discuss the importance of light in plant growth and development. (5 marks)

8. Explain the process of transpiration in plants. (5 marks)

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Time allowed: 2:10 Hours

Total Marks Sections B and C: 32

NOTE: Answer any six parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 18)

Q. 2 Attempt any SIX parts. The answer to each part should not exceed 3 to 4 lines. (6 x 3 = 18)

(i) Define induction Motor.
(ii) What is relay?
(iii) What is circuit breaker?
(iv) Define field pole.
(v) Define Alternator.
(vi) Write down a note on rectification.
(vii) What is rotor?
(viii) What is the use of Half wave rectifier?

SECTION – C (Marks 14)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 7 = 14)

Q. 3 Write down the working principle of an induction motor.
Q. 4 Write down a note on Bridge Rectifier.
Q. 5 Write down a note on Voltage and Current Regulator.

(6x3=18)

(2x7=14)