**Module 6 Week 3 Exercise 20**

Complete the following quiz to check your understanding of today’s lesson.

1. Draw a line to connect the following components of a single-phase motor with their correct descriptions:

|  |  |
| --- | --- |
| **Components**  | **Descriptions**  |
| Stator | The rotating part of the motor that converts the magnetic field into mechanical motion  |
| Rotor | Coils of wire placed in the stator slots, responsible for creating the magnetic field |
| Motor windings | The stationary part of the motor that generates a rotating magnetic field |

1. True or False: The stator is made of laminated steel cores.
2. What is the role of the rotor in a single-phase motor?
3. How do single-phase motors start rotating?
4. Name two advantages of single-phase motors.
5. What are some common issues that single-phase motors can encounter?
6. Fill in the blank: The motor windings are coils of wire placed in the \_\_\_\_\_\_\_\_.
7. True or False: Single-phase motors require a specific type of power supply, unlike three-phase motors.
8. What is the purpose of laminated steel cores in the stator?
9. What is the purpose of the stator in a single-phase motor?
10. What are the two main components of the stator in a single-phase motor?
11. How does a single-phase motor start rotating?