

# 4th class power engineering exam questions part

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### 4th Class Power Engineering Exam Questions: Part 1

The 4th Class Power Engineering exam is a comprehensive test that covers a wide range of topics. To help you prepare, we've compiled a list of exam questions and answers.

**Question 1:** What is the purpose of a transformer? **Answer:** To transfer electrical energy from one circuit to another.

**Question 2:** What are the two types of AC circuits? **Answer:** Series and parallel.

**Question 3:** What is the difference between voltage and current? **Answer:** Voltage is a measure of electrical potential, while current is a measure of the flow of electrical charge.

**Question 4:** What is the formula for power? **Answer:**  $\text{Power} = \text{Voltage} \times \text{Current}$

**Question 5:** What is the unit of measurement for power? **Answer:** Watts

### 4th Class Power Engineering Exam Questions: Part 2

**Question 6:** What is the primary function of a circuit breaker? **Answer:** To protect electrical circuits from overloads and short circuits.

**Question 7:** What are the two main types of circuit breakers? **Answer:** Thermal magnetic and electronic.

**Question 8:** What is the difference between a fuse and a circuit breaker? **Answer:** A fuse is a one-time-use protective device, while a circuit breaker can be reset.

**Question 9:** What is the purpose of a ground fault circuit interrupter (GFCI)? **Answer:** To prevent electrical shock.

**Question 10:** What is the color code for electrical wires? **Answer:** Black (hot), white (neutral), green or bare copper (ground).

#### **4th Class Power Engineering Exam Questions: Part 3**

**Question 11:** What are the different types of electrical generators? **Answer:** Synchronous, induction, and DC.

**Question 12:** What is the purpose of a prime mover? **Answer:** To convert mechanical energy into electrical energy.

**Question 13:** What is the difference between a synchronous generator and an induction generator? **Answer:** A synchronous generator operates at a constant speed, while an induction generator operates at a speed that is slightly lower than the synchronous speed.

**Question 14:** What is the purpose of a voltage regulator? **Answer:** To maintain a constant voltage output.

**Question 15:** What is the difference between a step-up transformer and a step-down transformer? **Answer:** A step-up transformer increases the voltage, while a step-down transformer decreases the voltage.

#### **4th Class Power Engineering Exam Questions: Part 4**

**Question 16:** What are the different types of electrical motors? **Answer:** AC motors, DC motors, and universal motors.

**Question 17:** What is the purpose of a starter? **Answer:** To limit the starting current of a motor.

**Question 18:** What is the difference between a single-phase motor and a three-phase motor? **Answer:** A single-phase motor requires a starting capacitor, while a

three-phase motor does not.

**Question 19:** What is the purpose of a speed controller? **Answer:** To control the speed of a motor.

**Question 20:** What are the different types of electrical controls? **Answer:** Manual controls, automatic controls, and electronic controls.

#### **4th Class Power Engineering Exam Questions: Part 5**

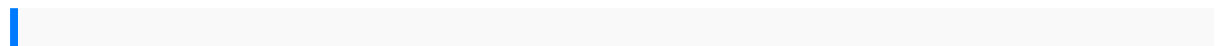
**Question 21:** What are the different types of electrical enclosures? **Answer:** NEMA 1, NEMA 3, NEMA 4, and NEMA 7.

**Question 22:** What are the different types of electrical fittings? **Answer:** Conduit, raceways, boxes, and fittings.

**Question 23:** What are the different types of electrical wiring methods? **Answer:** Open wiring, concealed wiring, and underground wiring.

**Question 24:** What are the different types of electrical hazards? **Answer:** Electrical shock, electrical burns, and electrical fires.

**Question 25:** What are the different types of electrical safety precautions? **Answer:** Proper grounding, proper insulation, and proper ventilation.



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