

# 67 30mb wbpssc assistant engineer electrical question paper

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### 67th West Bengal Public Service Commission (WBPSC) Assistant Engineer (Electrical) Question Paper: 5 Questions and Answers

The 67th WBPSC Assistant Engineer (Electrical) written examination was held on January 22, 2023. The paper consisted of objective type questions from various topics related to electrical engineering. Here are 5 questions and answers from the question paper:

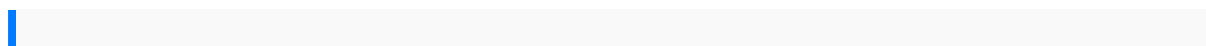
**Question 1:** The resistance of a wire is 10 ohms. What is the resistance of a wire of the same material and length but having half the diameter? **Answer:** 40 ohms

**Question 2:** A 10 MW, 3-phase induction motor has a power factor of 0.85 lagging. What is the reactive power drawn by the motor? **Answer:** 5.52 MVA

**Question 3:** The voltage regulation of a 100 kVA, 11 kV distribution transformer is 5%. What is the voltage drop across the transformer when it is fully loaded? **Answer:** 550 V

**Question 4:** A 220 V DC motor has an armature resistance of 0.5 ohms. If the motor draws a current of 20 A, what is the back emf of the motor? **Answer:** 210 V

**Question 5:** A single-phase capacitor start capacitor run motor has a starting capacitor of 300  $\mu$ F and a running capacitor of 50  $\mu$ F. What is the capacitor start ratio of the motor? **Answer:** 6



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