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Exam : C1000-179

Title : Fundamentals of Quantum
Computing Using Qiskit
v2.X Developer

Version : DEMO

1.A circuit prepares the single-qubit state $e^{i\pi/3}|0\rangle$ and then measures in the computational basis. What is the probability of obtaining the outcome 0?

- A. 0.5
- B. 0.0
- C. 1.0
- D. It depends on the value of the phase $e^{i\pi/3}$

Answer: C

2.Which method is used to add a barrier across all qubits in a QuantumCircuit object qc?

- A. qc.barrier()
- B. qc.stop()
- C. qc.wait()
- D. qc.add_barrier()

Answer: A

3.In OpenQASM 3, which keyword is used to declare a classical floating-point variable?

- A. float
- B. double
- C. real
- D. decimal

Answer: A

4.Which Estimator option should be increased to enable advanced techniques like Zero Noise Extrapolation (ZNE)?

- A. resilience_level
- B. optimization_level
- C. execution_priority
- D. shots_count

Answer: A

5.Which method adds a controlled-Z gate between qubit 0 and qubit 1?

- A. qc.cz(0, 1)
- B. qc.control_z(0, 1)
- C. qc.z_ctrl(0, 1)
- D. qc.ccz(0, 1)

Answer: A