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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^(iπ/3)|0⟩ 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 π /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