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Exam : **C1000-112**

Title : Fundamentals of Quantum Computation Using Qiskit v0.2X Developer

Version : DEMO

1.Which of the below statements plots how the qubits are connected in the ibmq_santiago system?

A)
```
from qiskit.visualization import plot_device_map
backend = provider.get_backend('ibmq_santiago')
plot_device_map(backend, plot_directed=True)
```
B)
```
from qiskit.visualization import plot_gate_map
backend = provider.get_backend('ibmq_santiago')
plot_gate_map(backend, plot_directed=True)
```
C)
```
from qiskit.visualization import plot_qubit_map
backend = provider.get_backend('ibmq_santiago')
plot_qubit_map(backend, plot_directed=True)
```
D)
```
from qiskit.visualization import plot_system_map
backend = provider.get_backend('ibmq_santiago')
plot_system_map(backend, plot_directed=True)
```
A. Option A

B. Option B

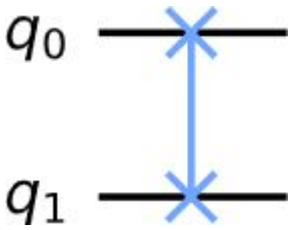
C. Option C

D. Option D

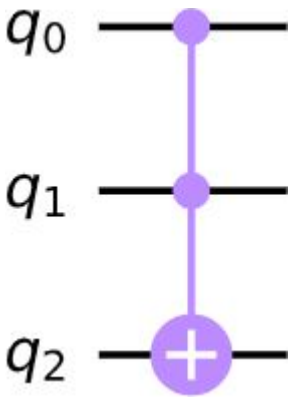
Answer: B

2.Which of the following multi qubit-gate represents the controlled-z gate?

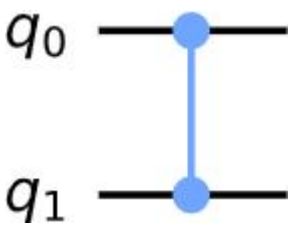
A)



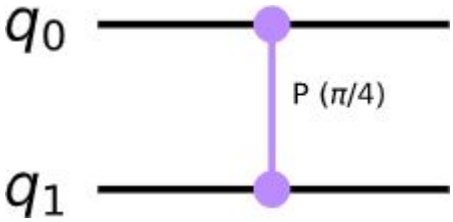
B)



C)



D)



A. Option A
B. Option B
C. Option C
D. Option D
Answer: C

3.Which one of the below statements is invalid when drawing the quantum circuit?
A. qc.draw(output='mpl')
B. qc.draw(output='text')
C. qc.draw(output='latex')
D. qc.draw(output='png')
Answer: D

4.What fundamental property of classical information is distinctly different in quantum information?
A. Deterministic encoding
B. Limited storage capacity
C. Non-locality and superposition
D. Binary representation
Answer: C

5.What is the role of the Toffoli gate in a quantum circuit?
A. Reverses the state of a qubit
B. Acts as a controlled-controlled-NOT gate
C. Implements a phase shift on qubits
D. Creates entanglement between qubits
Answer: B