



STUDENT'S NAME:

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[illegible]

The diagram shows a quantum circuit. At the top, a qubit labeled $|\psi\rangle$ is connected to a box labeled U . Inside the box U , there is a circle containing N qubits, each labeled $|\phi\rangle$. The output of the box U is a qubit and a circle containing N qubits. The output qubit is connected to a box labeled V . Inside the box V , there is a circle containing N qubits. The output of the box V is a circle containing N qubits.