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Q35

Which one of the following is the context in which the term "qubit" is mentioned? (a) Cloud Services (b) Quantum Computing (c) Visible Light Communication Technologies (d) Wireless Communication Technologies Official key: B.

UPSC Civil Services Prelims 2022 · General Studies · 2 marks · Current Affairs and GK

Current events, government schemes, miscellaneous GK - Prelims GS Paper I.

Explanation

(a)

Cloud services. Use qubits only if the cloud is a quantum machine.

(b) Official key

Quantum computing. A **qubit** is the unit of quantum information.

(c)

Visible-light communication. Li-Fi; not qubits.

(d)

Wireless communication. Classical RF.

Summary

Official key is (b) quantum computing. A **qubit** (quantum bit) can be in superposition; it is the basic information unit of a quantum processor.

Related possible facts

These can be asked in a future Prelims paper.

Qubit

Two-level quantum system; superposition and entanglement.

NISQ

Noisy intermediate-scale quantum devices now in labs.

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