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Q40

With reference to "Blockchain Technology" consider the following statements: 1. It is a public ledger that everyone can inspect, but which no single user controls 2. The structure and design of blockchain is such that all the data in it are about crypto currency only. 3. Applications that depend on basic features of blockchain can be developed without anybody's permission. Which of the statements given above is/are correct? (a) 1 only (b) 1 and 2 only (c) 2 only (d) 1 and 3 only Official key: D.

UPSC Civil Services Prelims 2020 · General Studies · 2 marks · Science and Technology
Science, technology, space, defence, IT - Prelims GS Paper I.

Explanation

(a)

1 only. Permissionless apps are also true of public chains.

(b)

1 and 2 only. Data on a chain is not 'crypto only'.

(c)

2 only. The false limb.

(d) Official key

1 and 3 only. A **public ledger** no single user controls; anyone can build on the open rules. Crypto is one application, not the only payload.

Summary

Official key is (d) 1 and 3 only. A public blockchain is a shared ledger without a single controller, and permissionless development is part of that design. It is not limited to cryptocurrency data.

Related possible facts

These can be asked in a future Prelims paper.

Public ledger

Bitcoin/Ethereum-style transparency.

Smart contract

Non-currency apps on the same rails.

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