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Q64

Consider the following pairs: Terms sometimes seen in news - Context/Topic 1. Belle II experiment - Artificial Intelligence 2. Blockchain technology - Digital/Cryptocurrency 3. CRISPR-Cas9 - Particle Physics Which of the pairs given above is/are correctly matched? (a) 1 and 3 only (b) 2 only (c) 2 and 3 only (d) 1, 2 and 3 Official key: B.

UPSC Civil Services Prelims 2018 · General Studies · 2 marks · Art and Culture

Indian art, architecture, culture - Prelims GS Paper I.

Explanation**(a)**

(a) 1 and 3 only. **Belle II** is a particle-physics experiment at SuperKEKB (B-meson factory), not artificial intelligence. **CRISPR-Cas9** is a gene-editing tool, not particle physics. Both pairs 1 and 3 are mismatched. This option is not the key.

(b) Official key

(b) 2 only. **Blockchain** is the distributed-ledger technology underlying cryptocurrencies and related digital assets, so pair 2 is correctly matched. Pairs 1 and 3 swap fields. Hence only 2. This option is the official key.

(c)

(c) 2 and 3 only. Pair 2 is right, but **CRISPR-Cas9** is biology/genome editing, not particle physics. This option is not the key.

(d)

(d) 1, 2 and 3. Two of the three pairs are wrongly matched. This option is not the key.

Summary

Official key is (b) 2 only. **Blockchain** belongs with digital/cryptocurrency. **Belle II** is a collider experiment on B mesons, not an AI project. **CRISPR-Cas9** is a programmable nuclease used in gene editing, not in particle physics. Only the second pair is therefore correctly matched. Options that keep **Belle II** or CRISPR in the wrong context fail.

Related possible facts

These can be asked in a future Prelims paper.

Belle II

KEK, Japan; SuperKEKB e^+e^- collider

CRISPR-Cas9

Bacterial adaptive immunity adapted as a gene-edit tool

Blockchain

Append-only distributed ledger; Bitcoin (2008-09) as first large use

LIGO vs Belle

Different physics: gravitational waves versus flavour physics

Jennifer Doudna / Emmanuelle Charpentier

2020 Nobel Prize in Chemistry for CRISPR

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