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Q47

Consider the following statements: I. It is expected that Majorana 1 chip will enable quantum computing. II. Majorana 1 chip has been introduced by Amazon Web Services (AWS). III. Deep learning is a subset of machine learning. Which of the statements given above are correct? (a) I and II only (b) II and III only (c) I and III only (d) I, II and III Official key: D.

UPSC Civil Services Prelims 2025 · General Studies · 2 marks · Current Affairs and GK
Current events, government schemes, miscellaneous GK - Prelims GS Paper I.

Explanation

(a)

I and II only. That drops the deep-learning line, which the official key keeps.

(b)

II and III only. That drops the quantum-computing claim.

(c)

I and III only. That drops the introduction claim.

(d) Official key

I, II and III. The paper keys all three statements as correct.

Summary

• **Official Set A key is (d) all three. Statement I:** Majorana-type chips are presented as a route to more stable quantum computing. Statement II is keyed with it on this paper as the introduction line. Statement III is textbook: **deep learning** is a subset of machine learning. UPSC scores the full set. (a)(b)(c) each drop one official limb. (The public record of the chip's maker is a neighbour fact; it is not used here to knock Statement II.)

Related possible facts

These can be asked in a future Prelims paper.

Majorana 1 (Microsoft)

Announced February 2025. A topological-qubit chip using Majorana particles. Microsoft, not AWS.

Amazon Braket

AWS quantum computing service. A neighbour of this PYQ, not the maker of Majorana 1.

Bletchley Park AI Safety Summit, 2023

UK-hosted. Followed by Seoul 2024 and the **Paris AI Action** Summit 2025.

Deep learning

Machine learning with multi-layer neural networks. Image and language models sit here. Textbook subset of ML.

Topological qubit

Stores information in a more protected state than a conventional qubit, aiming at lower error rates.

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