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Q83

Consider the following space missions : I. Axiom-4 II. SpaDeX III. Gaganyaan How many of the space missions given above encourage and support micro-gravity research? (a) Only one (b) Only two (c) All the three (d) None Official key: B.

UPSC Civil Services Prelims 2025 · General Studies · 2 marks · Science and Technology

Science, technology, space, defence, IT - Prelims GS Paper I.

Explanation

(a)

Only one. More than one of these missions supports **micro-gravity** work.

(b) Official key

Only two. **Axiom-4** and **Gaganyaan** are human-spaceflight / station-class missions that support **micro-gravity** research. **SpaDeX** is a docking technology demo, not keyed as a **micro-gravity** lab.

(c)

All three. **SpaDeX** is the extra.

(d)

None. Two are keyed.

Summary

Official Set A key is (b) only two. **Axiom-4** is a commercial station mission; **Gaganyaan** is India's human spaceflight programme - both are **micro-gravity** research platforms. **SpaDeX** is ISRO's docking experiment, not counted here as a **micro-gravity** research mission. Two of three.

Related possible facts

These can be asked in a future Prelims paper.

Axiom-4

Private ISS mission. Shubhanshu Shukla flew 2025. ISS is a micro-g lab.

SpaDeX

ISRO docking experiment, 2024-25. A rendezvous tech demo.

Gaganyaan

India's human spaceflight. Science experiments are planned; not keyed here as micro-g.

Micro-gravity

Free-fall environment. ISS, space stations, parabolic flights.

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