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Q22

"System of Rice Intensification" of cultivation, in which alternate wetting and drying of rice fields is practised, results in: 1. Reduced seed requirement 2. Reduced methane production 3. Reduced electricity consumption Select the correct answer using the code given below: (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3 Official key: D.

UPSC Civil Services Prelims 2022 · General Studies · 2 marks · Environment and Ecology
Environment, ecology, climate, biodiversity - Prelims GS Paper I.

Explanation

(a)

1 and 2 only. Alternate wetting also cuts pump-hours / electricity.

(b)

2 and 3 only. Seed rate in **SRI** is also lower.

(c)

1 and 3 only. Methane falls when fields are not continuously flooded.

(d) Official key

• **All three.** **SRI**: fewer seedlings, **AWD** (less CH₄), less irrigation energy.

Summary

Official key is (d) all three. System of Rice Intensification uses fewer plants (lower seed), alternate wetting and drying (less methane than continuous flood), and therefore less pumping / electricity.

Related possible facts

These can be asked in a future Prelims paper.

SRI

Young single seedlings, wider spacing, AWD, organic matter.

AWD

Alternate wetting and drying - a methane-mitigation practice.

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