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Q69

Consider the following: 1. Bacteria 2. Fungi 3. Virus Which of the above can be cultured in artificial/synthetic medium? (a) 1 and 2 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3 Official key: A.

UPSC Civil Services Prelims 2021 · General Studies · 2 marks · Art and Culture

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

Explanation**(a) Official key**

1 and 2 only. Bacteria and fungi grow on synthetic media. Viruses need living host cells.

(b)

2 and 3 only. Viruses fail the artificial-medium test.

(c)

1 and 3 only. Same miss on virus.

(d)

All three. Virus cannot be cultured on agar alone.

Summary

Official key is (a) 1 and 2 only. Bacteria and fungi take artificial media. Viruses are obligate intracellular - they are grown in eggs, cell lines or animals, not on a flask of broth alone.

Related possible facts

These can be asked in a future Prelims paper.

Obligate parasite

Virus; no independent metabolism.

Cell culture

The actual 'medium' for virus work.

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