

WRAP Exams · wrapexams.com

Prelims PYQ, Mains model answers, and copy evaluation. Write to the desk for this paper, a doubt, or the AI waitlist.

ask@wrapexams.com · +91 85951 84903 · wrapexams.com

Q73

Consider the following pairs: Commonly used/consumed materials - Unwanted or controversial chemicals likely to be found in them 1. Lipstick - Lead 2. Soft drinks - Brominated vegetable oils 3. Chinese fast food - Monosodium glutamate Which of the pairs given above is/are correctly matched? (a) 1 only (b) 2 and 3 only (c) 1 and 3 only (d) 1, 2 and 3 Official key: D.

UPSC Civil Services Prelims 2017 · General Studies · 2 marks · Science and Technology

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

Explanation**(a)**

Option (a) is 1 only. Lipstick can contain lead as a contaminant, but the other two pairs are also valid controversy pairings. Restricting the answer to lipstick alone is incomplete. This option is not the key.

(b)

Option (b) is 2 and 3 only. It drops the correctly matched lipstick-lead pair. This option is therefore wrong.

(c)

Option (c) is 1 and 3 only. Brominated vegetable oils have been used as clouding agents in some citrus soft drinks and have been controversial. Omitting pair 2 is wrong. This option is not the key.

(d) Official key

- **All three stem pairs are correctly matched:** lead in some lipsticks; brominated vegetable oils in some soft drinks; monosodium glutamate in much Chinese-style fast food (a flavour enhancer that is controversial for some consumers). That is why 1, 2 and 3 is the official key.

Summary

Official key is (d) 1, 2 and 3. The question's pairs flag unwanted or debated chemicals in everyday products. Lead has been reported in cosmetics; **BVO** in some sodas; **MSG** in many Chinese fast-food preparations. None of the three pairings is a mismatch. The full set is therefore correct.

Related possible facts

These can be asked in a future Prelims paper.

Lead in cosmetics

Impurity concern; regulated limits in many jurisdictions

BVO

Brominated vegetable oil; restricted or banned in several countries

MSG

Monosodium glutamate; umami salt; 'Chinese restaurant syndrome' debates

FSSAI

Indian food-safety regulator for additives in drinks and foods

Heavy metals in colour

Also a wider issue in sindoor, kajal and cheap paints

WRAP Exams · Write. Read. Analyse. Practice. · <https://wrapexams.com/upsc/prelims/gs/2017/consider-the-following-pairs-commonly-used-consumed-materials-unwanted-or-controversial-chemicals-likely-to-be-found-in-them-1-lipstick-lead-2-soft-drinks-brominated-vegetable-oils-3-chinese-fast-food-monosodium/> · ask@wrapexams.com · wrapexams.com