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Q95

In the context of wearable technology, which of the following tasks is/are accomplished by wearable devices? 1. Location identification of a person 2. Sleep monitoring of a person (a) 1 only (b) 2 and 3 only (c) 3 only (d) 1, 2 and 3 Official key: D.

UPSC Civil Services Prelims 2019 · General Studies · 2 marks · Science and Technology

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

Explanation**(a)**

(a) 1 only. Wearables also monitor sleep and can assist hearing. Dropping 2 and 3 is not the key.

(b)

(b) 2 and 3 only. Location identification (GPS watches, **fitness bands**) is also a core wearable task. Dropping 1 is not the key.

(c)

(c) 3 only. Hearing assistance is only one of the three listed tasks. Not the key.

(d) Official key

(d) 1, 2 and 3. Wearable devices can locate a person, log sleep, and assist the hearing-impaired (connected hearing aids, cochlear processors, haptic alerts). All three are accomplished. Official key.

Summary

• **Official key is (d). Wearables are body-worn computers:** GPS and beacons for location, accelerometers and heart-rate sensors for sleep, and hearing-aid class devices for the hearing-impaired. None of the three tasks is outside the category. Honour (d).

Related possible facts

These can be asked in a future Prelims paper.

Fitness bands

Steps, heart rate, sleep stages

Smartwatches

GPS location, notifications, health sensors

Hearing aids / cochlear

Wearable assistive tech

IoT

Wearables as a node in the Internet of Things

CGM / insulin pumps

Other medical wearables

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