

September 24, 2018

**Q.1) Consider the following statements with respect to 'Vantangiya's'**

1. The Vantangiya community comprises people brought from Myanmar during the colonial rule to plant trees for afforestation.
2. They were brought by Lord Mountbatten

**Select the correct statements**

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

**Q.1) Solution (c)**

Both the statements are correct.

In a bid to bring the forest-dwelling Vantangiya community into the mainstream, Uttar Pradesh Government declared their 18 settlements as revenue villages.

'Tangia' is a distortion of the word for the Burmese technique of shifting hill plantation, Taungya, under which the space between the planted trees was used for growing seasonal crops by the labourers.

Read More - <http://www.uniindia.com/people-of-vantangiya-community-are-now-officially-indians/regional/news/213934.html>

Source: <https://www.thehindu.com/todays-paper/eastern-ups-forest-dwellers-are-finally-on-the-revenue-map/article25018597.ece>

**Q.2) Consider the following statements about 'XMM-Newton'**

1. It is launched by the European Space Agency (ESA)
2. It is tasked with investigating interstellar X-ray sources, performing narrow- and broad-range spectroscopy.

**Select the correct statements**

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

### Q.2) Solution (c)

XMM-Newton, also known as the High Throughput X-ray Spectroscopy Mission and the X-ray Multi-Mirror Mission, is an X-ray space observatory launched by the European Space Agency in December 1999 on an Ariane 5 rocket. It is the second cornerstone mission of ESA's Horizon 2000 programme. Named after physicist and astronomer Sir Isaac Newton, the spacecraft is tasked with investigating interstellar X-ray sources, performing narrow- and broad-range spectroscopy, and performing the first simultaneous imaging of objects in both X-ray and optical (visible and ultraviolet) wavelengths.

Source: <https://www.pressreader.com/india/the-hindu/20180923/282248076480020>

### Q.3) Consider the following statements about 'Pika'

1. It is a member of the rat family
2. It is a keystone species

Which of the following statements is/are correct?

- a) 1 Only
- b) 2 Only
- c) Both 1 and 2
- d) Neither 1 nor 2

### Q.3) Solution (b)

Pikas are members of the rabbit family and look like tailless rats.

They are a keystone species and ecosystem engineers

Keystone species is a species whose addition to or loss from an ecosystem leads to major changes in occurrence of at least one other species.

Certain species in an ecosystem is considered more important in determining the presence of many other species in that ecosystem.

If keystone species is lost, it will result in the degradation of whole ecosystem.

Source: <https://www.thehindu.com/sci-tech/science/dna-metabarcoding-reveals-herb-specific-diet-of-pikas/article25016139.ece>

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**Q.4) Consider the following statements about 'UTRAQ'**

- a) It is a Vehicle Tracking System (VTS) module
- b) It is based on India Space Research Organisation' (ISRO) Indian Regional Navigation Satellite System (IRNSS) to track locations
- c) Both (a) and (b)
- d) Neither (a) nor (b)

**Q.4) Solution (c)**

India has launched its very own GPS module. Known as 'UTRAQ', the module was introduced at an event in New Delhi, MobileTek and Rama Krishna Electro Pvt Ltd UTRAQ is a VTS module based on IRNSS to track locations.

L110 GNSS and L100 GNSS are the two modules launched. The L110 GNSS module is a compact NavIC module, while the L100 GNSS module is a smaller-sized POT (Patch on Top) IRNSS module. These modules can be used for different tasks other than tracking. These include ranging, command, control, timing and more.

UTRAQ modules can be used for marine, aerial, terrestrial navigations. These modules can also be used for vehicle tracking and Geodetic data capture among others.

The UTRAQ modules support L1 and L5 bands, EPOTM orbit prediction, EASYTM self-generated orbit prediction and measures 18x16x2.3mm.

Source: <https://www.dnaindia.com/india/report-india-launches-utraq-first-desi-version-of-gps-module-based-on-isro-s-irNSS-2666191>

**Q.5) 'Living Planet Index' is released by**

- a) World Wildlife Fund (WWF)
- b) United Nations Environment Programme (UNEP)
- c) Intergovernmental Panel on Climate Change (IPCC)
- d) IUCN

**Q.5) Solution (a)**

Living Planet Index -

[http://wwf.panda.org/about\\_our\\_earth/all\\_publications/living\\_planet\\_index2/](http://wwf.panda.org/about_our_earth/all_publications/living_planet_index2/)