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Q.1) 'Repurpose Used Cooking Oil (RUCO) initiative' is launched by the

- a) Food Safety and Standards Authority of India (FSSAI)
- b) NITI Aayog
- c) Ministry of Petroleum and Natural Gas
- d) World Health Organisation

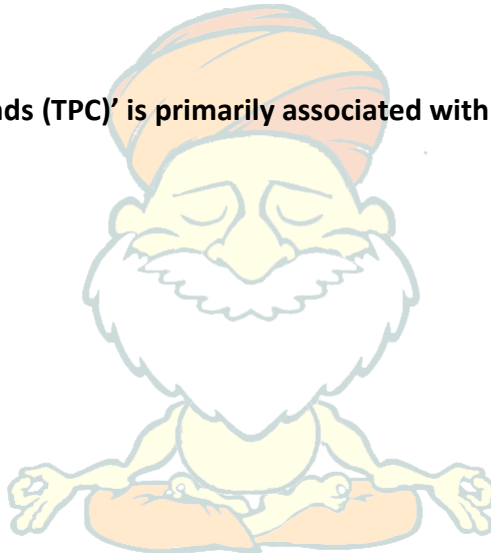
Q.1) Solution (a)

Food Safety and Standards Authority of India (FSSAI) has launched the Repurpose Used Cooking Oil (RUCO) initiative to collect and convert used cooking oil into bio-fuel.

Source: <https://www.thehindu.com/sci-tech/energy-and-environment/state-run-oil-marketing-companies-to-buy-biodiesel-made-from-used-cooking-oil/article28979554.ece>

Q.2) 'Total Polar Compounds (TPC)' is primarily associated with monitoring of the quality of

- a) Seafood
- b) Oil
- c) Water
- d) Air



Q.2) Solution (b)

Total Polar Compounds. The estimation of Total Polar Compounds (TPC) is a widely accepted parameter to decide whether the oil is safe for further use or not.

Source: <https://www.thehindubusinessline.com/news/bakeries-sweet-shops-restaurants-can-now-sport-trans-fat-free-logo/article28712040.ece>

Q.3) Consider the following statements with respect to 'Tardigrades'

1. They can survive extremes of temperature and pressure.
2. It can survive the frigid vacuum of space.

Select the correct statements

- a) 1 Only

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

Q.3) Solution (c)

Tardigrades can survive extremes of temperature and pressure, including the frigid vacuum of space. They don't seem to mind being exposed to radiation and are all-round tough little creatures. When dehydrated, they roll up into a spore-like state that slows down their metabolic rate by about a hundred-fold, enabling them to survive for potentially over 100 years.

But to live their life to the fullest requires water. It's where they get their oxygen and food, typically colonising clumps of algae or burrowing into sediment to ingest nutrients from the fluid of other living creatures, even other tardigrades.

Source: <https://phys.org/news/2019-08-tardigrades-polluting-moon-indestructible-creatures.html>

Q.4) Consider the following statements with respect to 'National Commodity & Derivatives Exchange (NCDEX)'

1. It is regulated by Securities and Exchange Board of India.
2. It is a public limited company incorporated in 2003 under the Companies Act, 1956.

Select the correct statements

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

Q.4) Solution (c)

NCDEX is a public limited company incorporated on April 23, 2003 under the Companies Act, 1956.

NCDEX is a nation-level, technology driven de-mutualised on-line commodity exchange with an independent Board of Directors and professional management - both not having any vested interest in commodity markets. It is committed to provide a world-class commodity

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exchange platform for market participants to trade in a wide spectrum of commodity derivatives driven by best global practices, professionalism and transparency.

NCDEX is regulated by Securities and Exchange Board of India. NCDEX is subjected to various laws of the land like the Securities Contracts (Regulation) Act, 1956, Companies Act, Stamp Act, Contract Act and various other legislations.

NCDEX headquarters are located in Mumbai and offers facilities to its members from the centres located throughout India.

Q.5) Which of the following National Parks is unique in being a swamp with floating vegetation that supports a rich biodiversity?

- a) Bhitarkanika National Park
- b) Keibul Lamjao National Park
- c) Keoladeo Ghana National Park
- d) Sultanpur National Park

Q.5) Solution (b)

The Keibul Lamjao National Park is a national park in the Bishnupur district of the state of Manipur in India. It is 40 sq. km in area, the only floating park in the world, located in North East India, and an integral part of Loktak Lake.

