**Environment and Disaster Management**

**December 2023 Examination**

**Q.1) There has been a flash flood alert sounded in Darjeeling, West Bengal on April 1, 2024 & the Meteorological Department issues an emergency alert of an impending landslide expected to hit the main roads & highways across Darjeeling township. You are in charge of NDRF (National Disaster Response Force). Suggest various modern disaster management steps to help the city better prepare for the onslaught of the flash floods.**

**Ans:**

**Introduction:**

Flash floods, characterized by their sudden onset and swift, violent nature, threaten communities and ecosystems, specifically in areas with various topographies and climatic conditions. One such vulnerable location is Darjeeling, a picturesque town nestled in the hills of West Bengal, India. On April 1, 2024, the Meteorological Department issued a flash flood alert for Darjeeling, accompanied by a dire caution of an impending landslide to ravage the principal roads and highways inside the township. This looming disaster underscores the need for an efficient and proactive disaster management method.

In this context, the National Disaster Response Pressure (NDRF) stands at the forefront, crafting and executing a complete disaster management plan to mitigate capacity devastation, keep lives,

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**Q.2) Kanpur, one of Uttar Pradesh’s prominent cities generates 1500 Metric tonnes of waste per day owing to the presence of a large population of 3 million inhabitants. There exist 400 open dumping sites for waste dump. Suggest & briefly describe any 3 innovative techniques to dispose of the waste in an effective manner.**

**Ans:**

**Title: Innovative Waste Disposal Techniques for Efficient Waste Management in Kanpur, Uttar Pradesh**

**Introduction:**

Kanpur, a prominent city in Uttar Pradesh, faces a significant waste management challenge because its large population of approximately 3 million inhabitants generates 1500 metric tonnes of waste daily. Managing the substantial quantity of waste is complex with the aid of 400 open dumping websites. Powerful waste management is essential to address environmental, health, and sustainability concerns. This essay explores three modern waste disposal techniques that can revolutionize waste management in Kanpur, presenting sustainable and efficient solutions.

**Concept & Application of Innovative Waste Disposal Techniques:**

**1. Waste-to-Energy (WtE) Conversion:**

Waste-to-energy (WtE) conversion includes reworking waste materials into energy, typically electricity or heat. This system reduces the extent of waste and generates usable energy. Inside

**Q.3) Visualise that you are living in a region of India that is known for its wonderful flora & fauna & also tea plantations & tea estates. Recently, it has been found that this area is also rich in some mineral deposits, which provides an ideal opportunity for mine owners. You have been observing that water pollution of the nearby rivers & illegal mining is increasing in your neighborhood by quite a bit.**

**A) Suggest 2 innovative initiatives to prevent & control soil erosion & illegal mining in your neighborhood.**

**Ans:**

**Introduction**

I reside in a region of India famous for its super flora and fauna, tea plantations, and tea estates, making it a haven for natural beauty. Unfortunately, this paradise is dealing with a significant danger because of the discovery of rich mineral deposits, which has attracted the eye of mine owners. This newfound interest in mining has taken a toll on the surroundings, mainly due to water pollution in nearby rivers and a surge in unlawful mining sports. This essay sheds light on

**B) How do you ensure that after your proposed solutions to tackle water pollution & illegal mining, your initiatives are sustained over a long period of time & that there is no discontinuity? Suggest 2 concrete proposals.**

**Ans:**

**Introduction:**

The picturesque vicinity in India, famous for its rich plant life, fauna, and expansive tea plantations, has faced a pressing trouble - the chance of water pollution and illegal mining. The discovery of precious mineral deposits has attracted the eye of mine proprietors, providing a capability environmental chance. In response to these demanding situations, sustainable