**Environment and Disaster Management**

**September 2022 Examination**

**Q1. India’s Meteorological Department (IMD) and the Joint Typhoon Warning System of the United States Navy have been monitoring unusual formation of a depression in the Bay of Bengal pointing towards the formation of an impending cyclone towards the Odishacoast. You are in charge of NDRF (National Disaster Response Force). Suggest various modern disaster management steps to help the entire region better prepare for the onslaught of the cyclone in the Odisha region & neighbouring territories.**

**Ans 1.**

**Introduction:**

National Disaster Response Force (NDRF) Specially trained force commanded with a director general.. It is structured as paramilitary forces to be deployed quickly. It will provide assistance to the appropriate State Government/District Administration in the situation of an imminent risk incident or its aftermath. The NDRF is constituted according to Chapter-VIII of the DM Act 2005 as a specialist response force which can be deployed in an emergency situation of disaster or.

In accordance with the DM Act, the general oversight, direction, and supervision of the NDRF is to be delegated and controlled through the NDMA. The authority and control of the NDRF is the

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**Q2. In the state of Gujarat, it has been reported that multiple chemical factories have been dumping toxic chemical waste directly into the Narmada river thereby causing large scale death of local fishes in the water body systems & also resulting in contamination of drinking water & irrigation systems. As an external consultant to the Govt of Gujarat, suggest 10 innovative concrete mechanisms to tackle this issue.**

**Ans 2.**

**Introduction:**

The recent water contamination in the vast Narmada Dam catchment area is becoming a major mystery as officials and environmentalists have fought on the cause that could be the reason for the imminent catastrophe. Authorities have stated that the sulphide contamination of the millions of acres (MAF) Narmada water body is the result of moderate seismic activity that created cracks in the river's bed through which toxic gases are leaking into the earth's core. the earth.

The Sardar Sarovar Narmada Nigam Limited (SSNNL) is the apex body for the canal and dam network has suspended water supplies to 138 villages within the area due to the reports that

**Q3. You are an external consultant to Delhi’s Municipal Corporation (DMC) which is the municipal body of India’s capital city New Delhi.**

**a. Amid a scorching once in century heat wave, a massive landfill by the name of Bhalswa landfill has been on fire since the past 4 days. Fire engines have failed to douse the fire & so also the Air Quality Index in Delhi has been hovering between ‘poor’ to ‘very poor’ category. Suggest 2 innovative concrete solutions to help douse the fire & preventing its recurrence.**

**Ans 3a**

**Introduction:**

It is believed that the sprawling Bhalswa landfill located in Northern Delhi has been on fire since the end of April According the [Millennium Post](http://www.millenniumpost.in/delhi/residents-continue-to-gasp-for-clean-air-at-bhalswa-landfill-site-477709), an information outlet located within New Delhi. A record heat wave is currently sweeping through India as well as Pakistan and, while experts

**b. Suggest 2 innovative ideas to clean Delhi’s Yamuna River which has unfortunately got converted into a sewage water body.**

**Ans 3b.**

**Introduction**

 (Yamuna Action Plan) It is among the biggest river restoration projects in India that is a joint project that is a collaboration between both the [Government of India](https://en.wikipedia.org/wiki/Government_of_India) and Japan. It is managed in collaboration with the National River Conservation Directorate and the Ministry of Environment and Forests as well as of course, the Government