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1 G7 Grouping (Source: The Hindu)

The G7 (Group of Seven) is an informal forum of the world's most advanced economies — France, Germany, Italy, the UK, Japan, the US, and Canada.

Key Features

- **Informal Grouping:** No formal treaty, no permanent secretariat or bureaucracy.
- **Rotating Presidency:** Each member hosts and leads discussions in turn.
- **Decisions by Consensus:** No binding laws (no legislative authority)

Facts To Know

- Initially formed as G6 (US, UK, France, West Germany, Japan, Italy) in response to the 1973 oil crisis and financial turmoil, with Canada joining in 1976 to make it G7.
 - It became G8 in 1997 with the inclusion of Russia, but reverted to G7 in 2014 after Russia's expulsion over the annexation of Crimea.

Economic Facts

- 40% of the global economy and 10% of the world's population live in G7 countries.
- 36% of global power generation capacity.
- 30% of global energy demand.
- 25% of global energy-related carbon dioxide (CO₂) emissions.

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2 Buxa Tiger Reserve (Source: The Hindu)

- **Location:** West Bengal.
 - Its northern boundary runs along the international border with Bhutan.
- **Naming:** It got its name from Buxa Fort, which is located on the Sinchula Range.
- **Ecosystem**
 - "Terai Ecosystem" constitutes a part of this reserve.
 - It serves as an international corridor for elephant migration between India and Bhutan.
- **Associated River:** River Raidak and the River Jayanti.
- **Vegetation:** Moist Tropical Forest'
- **Fauna:** Tiger, elephant, leopard cat, gaur, wild boar, sambar, hog deer, Chinese pangolin





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3 Galvanizing Process (Source: The Hindu)

Galvanizing is the process of applying a protective zinc coating to iron or steel to prevent rusting and corrosion. The most common method is hot-dip galvanizing.

Process

- **Degreasing:** Oil, grease and dirt are removed from the steel surface.
- **Pickling:** Steel is treated with dilute acid, usually hydrochloric or sulfuric acid, to remove rust and oxide scales.
- **Fluxing:** A flux, commonly zinc ammonium chloride, is applied to prevent oxidation and improve zinc adhesion.
- **Galvanizing:** The cleaned steel is immersed in molten zinc at about 450°C. Zinc reacts with iron to form protective iron–zinc alloy layers, with an outer zinc layer.
- **Cooling:** The galvanized material is withdrawn and allowed to cool or is quenched.
- **Inspection:** The zinc coating is checked for thickness, uniformity and defects.

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4 GOBARDhan Scheme (Galvanizing Organic Bio-Agro Resources Dhan) (Source: The Hindu)

