



# IAS PARLIAMENT

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A Shankar IAS Academy Initiative

## Prelim Bits 13-04-2018

### Index of Economic Freedom

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- Index of Economic Freedom is published by Heritage Foundation, an American think-tank.

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- The Index covers 12 freedoms – from property rights to financial freedom – in 186 countries.

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- The Index of Economic Freedom documents the positive relationship between economic freedom and a variety of positive social and economic goals.

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- Economic freedom is measured based on 12 quantitative and qualitative factors, grouped into four broad categories of economic freedom:

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1. Rule of Law (property rights, government integrity, judicial effectiveness)

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2. Government Size (government spending, tax burden, fiscal health)

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3. Regulatory Efficiency (business freedom, labor freedom, monetary freedom)

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4. Open Markets (trade freedom, investment freedom, financial freedom)

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- India moved up to the 130th spot, up from 143 in 2017.

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- India's overall score increased by 1.9 points, led by improvements in judicial effectiveness, business freedom, government integrity, and fiscal health.

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- Economic freedom is the fundamental right of every human to control his or her own labor and property.
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## **Mahatma Phule**

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- Prime Minister paid tributes to Mahatma Phule on his birth anniversary recently.
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- Phule was India's first Dalit reformer who offered a systematic theory of caste.
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- In the 19th century, Jyotiba Phule was the most radical opponent of untouchability and the caste system as he called for the complete demolition of its oppressive structure.
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- The Maharashtrian reformer and his wife Savitirao Phule opened the **first-ever school for Dalit girls** in 1848 in Pune.
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- **Gulamgiri (slavery)** is one of the 16 books written by him which was dedicated to the African-American movement to end slavery.
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- Phule led the foundation of **Satyashodhak Samaj** ('Seekers of Truth') in 1848 in a bid to attain equal social and economic benefits for the lower castes in Maharashtra.
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## **Rare sculpture of Rudrama Devi's 'last battle' discovered**

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- A sculptural slab carved in granite that has a life-size portrait of Kakatiya warrior queen Rudrama Devi was discovered by the Archaeological Survey of India (ASI).
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- It was discovered in the sanctum sanctorum of Trikuta temple at Bekkallu village in Siddipet district of Telangana.
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- The discovery has unraveled the mystery of her death who was killed during

a war by her own subordinate chief kayastha king Ambadeva somewhere near Warangal.

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- The portrait sculpture is a first of its kind that displays a fierce fighting scene between Rudrama Devi and Ambadeva.

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- The Kakatiya dynasty was a South Indian dynasty whose capital was Orugallu, now known as Warangal in the State of Telegana.

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- Rudrama devi was one of the very few women to rule as monarchs in India and promoted a male image in order to do so.

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## Guidance to increase support for breastfeeding

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- World Health Organization (WHO) and the United Nations Children's Fund (UNICEF) issued a new 10-step guidance to increase support for breastfeeding in health facilities recently.

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- Health facilities provide the immediate health system platform to help mothers initiate breastfeeding within the first hour and breastfeed exclusively for six months.

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- Breastfeeding all babies for the first 2 years would save the lives of **more than 8, 20,000 children under age 5 annually**, noted a release issued by the WHO.

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- Key features of the Guidelines include

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1. Hospitals should have a written breastfeeding policy in place, required staff competencies.

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2. Hospitals should also have an antenatal and post-birth care, including breastfeeding support for mothers.

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3. It recommends limited use of breast milk substitutes, rooming-in, responsive feeding.

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4. Finally it stresses upon support when mothers and babies are discharged from hospital and also educating parents on the use of bottles and pacifiers.

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- **MAA - Mothers' Absolute Affection**, a nation-wide program for promoting breastfeeding is in place under the Ministry of Health and family welfare, in India.

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## **Green Trains for Green India**

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- As per estimation, approx. 4,000 MT of human waste is discharged from train coaches every day.
- Indian Railways has provided about 1, 25,000 bio-toilets in its coaches till March 2018.
- With the proliferation of bio-toilets in 60% coaches commensurate human discharge in open, has been eliminated.
- “Bio-Toilet project” of Indian Railways is an innovative & indigenous development of technology.
- This technology is first of its kind being used by any railroad in the world for **On-board accelerated digestion of human waste**.
- The human waste discharged in the bio-toilets is acted upon by a colony of **anaerobic bacteria** that convert human waste mainly into water and small amount of bio-gases.
- The gases escape into atmosphere and waste water is discharged after chlorination onto the track.
- It was developed jointly by Indian Railways' Engineers & DRDO's scientists.
- It is one example where the technology developed for defence applications has been utilized for civilian purpose.

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## Indian Regional Navigation Satellite System 1I

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- Navigation satellite IRNSS-1I was put in orbit by the Indian Space Research Organization's (ISRO) PSLV-C41 rocket.

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- The navigation satellites are meant for giving precise information of position, navigation and time of objects or people.

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- The satellites will form the fleets of NavIC (Navigation with Indian Constellation).

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- NavIC is being dubbed as India's Own GPS.

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IRNSS, India's answer to Global Positioning System, will cover a radius of 1,500km with India at the centre. Here is where India stands in a comity of space-faring nations		
 <b>GPS</b> Country   <b>US</b> No. of Satellites   <b>31</b> Coverage   <b>Global</b> First satellite launch   <b>1978</b> Lifetime of each satellite   <b>10 years</b> Precision   <b>5m</b>	 <b>GALILEO</b> Region   <b>European Union</b> No. of satellites   <b>40 (10 in orbit now)</b> First launch   <b>2011</b> Area of coverage   <b>Global</b> Lifetime of each satellite   <b>12 years</b> Precision   <b>1m for public and 1cm for military</b>	No. of satellites   <b>35 (20 now in orbit)</b> First launch   <b>October 2000</b> Area of coverage   <b>global</b> Lifetime of each satellite   <b>12 years</b> Precision   <b>10m for public and 10cm for military</b>
 <b>GLONASS</b> Country   <b>Russia</b> No. of satellites   <b>24</b> Coverage   <b>Global</b> First satellite launch   <b>October 1982</b> Lifetime of each satellite   <b>10 years</b> Precision   <b>5m to 10m</b>	 <b>BEIDOU</b> Country   <b>China</b> Has two separate satellite constellations- limited test system and full-scale global navigation system	<b>IRNSS</b> Country   <b>India</b> No. of satellites   <b>7(5 in orbit)</b> Area of coverage   <b>Radius of 1500km</b> First satellite launch   <b>2013</b> Lifetime of each satellite   <b>12 years</b> Precision   <b>20m for civilian, 10m for military</b>

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- The satellites were built by a consortium of six Indian companies led by Alpha Design Technologies Ltd., Bengaluru.

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- They have a civilian and a restricted military/security application.

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- Like all other IRNSS satellites, IRNSS-1I will also carry two payloads

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1. Navigation payload former to transmit signals for determining position, velocity and time.

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2. Ranging payload for determining the frequency range of the satellite.

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- Each satellite has a life span of 10 years.

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- The system was planned to consist of 7 satellites (A,B,C,D,E,F,G) with 2 substitutes (H and I).

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- Out of 7 satellites A, B, F, G will be in geosynchronous and C, D, E will be in geostationary orbit.

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- IRNSS 1H, was unsuccessful as the satellite did not come out of its heat shield.

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- While IRNSS 1I will replace IRNSS 1A as its three imported rubidium atomic clocks failed while in orbit.

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## **Map of the Day**

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India Tiger Reserves

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- In total, there are 50 tiger reserves in the country.
- Kamlang Tiger Reserve in Arunachal Pradesh is the 50<sup>th</sup> tiger reserve and latest addition in the country.

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- The following are the states with only one tiger reserve

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1. Valmiki -Bihar

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2. Palamau- Jharkhand

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3. Dampa -Mizoram

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4. Nagarjunasagar Srisaillam (NSTR)- Andhra Pradesh

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- Amrabad Tiger Reserve was earlier part of Nagarjunasagar – Srisaillam Tiger Reserve (NSTR) but, post-bifurcation, the northern part of the reserve is vested with Telangana and renamed as Amrabad Tiger Reserve and the southern part (NSTR) is with Andhra Pradesh.

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- Jammu and Kashmir, Punjab, Himachal Pradesh, Haryana, Gujarat, Goa, Sikkim, Nagaland, Meghalaya, Tripura and Manipur are the states with no tiger reserves in their region.

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- The tiger reserve in the four corner of our states

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1. Rajaji Tiger Reserve (Uttrakhand) -North

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2. Kalakad-Mundanthurai (KMTR) - South

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3. Namdapha (Arunachal Pradesh) - East

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4. Sahyadri (Maharashtra) – West

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**Source: PIB, The Hindu, Business standard**

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