A demographic window of opportunity (Editorial)

State is 11th in PMMVY fund utilisation

Students get sick as school kitchens go unhygienic

IAF to adopt ASRAAM missile for fighter fleet

Worker safety code Bill gets Cabinet nod

Practice cum Revision - MCQs

* C – Chennai; B – Bengaluru; D – Delhi; T – Thiruvananthapuram
A demographic window of opportunity

India has a demographic window of opportunity. This is because India has a young population, which can contribute to the growth of the economy. However, this window is limited as it will close by 2027. Despite this, India expects a younger population which is necessary for the development of the country.

**Population Projections**

* Developed using existing population (Base Value)
* To calculate expected births, deaths, and migration
* Short term projections - Women in Childbearing ages
  - 15-39 years
  - China vs India (2019) → China - 23.5 crores
    - India - 25.3 crores
  - China - 'One Child Policy', 1979

**Issues to Focus**

1. Population Control:
   - China - 'One-Child' policy - Success
   - Enforcement of Citizens
   - India - Democracy
   - 'Encourage' the population (Soft Measures)
   - Restriction of maternity leave and benefits to first two births
   - People with > 2 children - Disqualification from Panchayat elections
   - Minor incentives for sterilization

* India will overtake China as the most populous nation - Fact
  - Subjected to frequent revisions by UN
    - 2015 report - By 2022
    - 2019 report - By 2027
  - India's population in 2050 → Downward revision
    - 2015 Report - 170.5 crores
    - 2019 Report - 163.9 crores
  - Reason → Slow Decline in India's fertility rate

* India will be the most populous country throughout most of the 21st century
  - This population needs to be used in a more productive way
2. Encourage people to have smaller families voluntarily:
   - Depends on socio-economic factors
   - Total Fertility Rate → 2015-16 data
     - Poorest Women: 3.2
     - Richest Women: 1.5
   - West vs India - Thought process of having one child
     - West → Work - Child Conflict
     - India → To provide good education & jobs in the future

Rich → Affordable Education → Govt. Support on education and jobs → Good jobs → Safe contraceptive services
Poor

3. ‘Population’ aspect in policies → change in mindset required
   - Policies based on 1971 Census (LS, FC allocations)
   - 15th FC → Likely to use 2011 census for calculation
     - Bihar, U.P., M.P., Kerala, T.N.
   - Author supports 2011 census based calculation methodology based on ‘demographic dividend’
   - Demographic Dividend:
     - Growth in an economy that is the result of a change in the age structure of a country’s population

Large variations of demographic dividend between the states

<table>
<thead>
<tr>
<th>Stage</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Birth rates</td>
<td>High</td>
<td>High</td>
<td>Falling</td>
<td>Low</td>
<td>Very low</td>
</tr>
<tr>
<td>Death rate</td>
<td>High</td>
<td>Falling rapidly</td>
<td>Falls more slowly</td>
<td>Low</td>
<td>Low</td>
</tr>
<tr>
<td>Population</td>
<td>40</td>
<td>30</td>
<td>20</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

Examples: A few remote areas, Egypt, Kenya, India, Brazil, USA, Japan, France, UK, Germany

Demographic Window of Opportunity
- Present → Kerala → U.P., Bihar
- Next 20 years
  - Karnataka, Haryana → Other states in need of money
- After 20 years → U.P., Bihar & Kerala other states

Suggestions
- Government must invest on education & health of the future workforce of states with demographic window of opportunity
- India must work forward enhancing the lives of citizens - present & future

Working Age population ⇒ Child Dependency Ratio↓
(High) Old-Age Dependency Ratio↑
Pradhan Mantri Matru Vandana Yojana

- All eligible Pregnant Women and Lactating mothers who had their pregnancy for 1st child
- \[ Rs. 5000 = Rs. 1000 + Rs. 2000 + Rs. 2000 \]
  - Before giving birth
  - After giving birth
- Incentive provided directly to bank accounts

Objectives

- Providing partial compensation for the wage loss, through cash incentives
- Pregnant women and Lactating mothers to take adequate rest, before and after the delivery of first living child
- To improve health seeking behaviour among the Pregnant women and Lactating mothers

Centrally ‘Sponsored’ scheme

- Cost sharing ratio

<table>
<thead>
<tr>
<th>Centre</th>
<th>States, UTs with legislature (NCT Delhi, Puducherry)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>40</td>
</tr>
</tbody>
</table>

- for other UTs \[ \rightarrow \text{Centre} \rightarrow 100\% \]
- for NE & Himalayan states \[ \rightarrow 90 : 10 \]
  \[ C : S \]

Implemented by State Governments/UTs

Implemented using

- Anganwadi Services Scheme of ICDS scheme
- ICDS \[ \rightarrow \text{Ministry of Women and Child Development} \]
**Shigella Infection**

- *Shigellosis*
- *Shigella* - Food borne pathogenic bacteria
  - *S. dysenteriae*
  - *S. flexneri*
  - *S. sonnei*
  - *S. boydii*

### Shigella Infection

**Symptoms**
- Diarrhoea
- Abdominal pain or cramps
- Fever

**Complications**
- Dehydration
- Seizures
- Rectal prolapse
- Hemolytic uremic syndrome
- Toxic megacolon
- Reactive arthritis

**Prevention**
- Wash hands frequently and thoroughly
- Dispose of soiled diapers properly
- Don't prepare food for others if you have diarrhea
- Avoid swallowing water from ponds, lakes or untreated pools

### Treatment

- Severe cases - Antibiotic treatment
  - Ciprofloxacin
  - Azithromycin
- General cases - Recovery without treatment in 5 to 7 days

### News

- Shigella infection reported in 2 different districts of Kerala in the last 2 weeks
  - Kozhikode
  - Alappuzha

- Affected population → School children
  - Vomiting
  - Diarrhea

- Source of contamination → Water used for cooking

- Other pathogens
  - E. Coli
  - Coliforms
  - Mold fungus
IAF to adopt ASRAAM missile for fighter fleet

It is currently undergoing integration

The Indian Air Force (IAF) is planning to adopt a new air-to-air
range visual range air-to-air
range in its fighter fleet.

The advanced short range visual range missile (ASRAAM) has been approved
for Jaguar and Tejas.

The IAF was looking to its
partner country France for
an indigenous light combat aircraft as well.

The Addbital has been
adopted for the Jaguars and it
already

MBDA Missile Systems

ASRAAM — Advanced Short Range Air-to-Air Missile

ASRAAM Missile already approved for Jaguar Fighter jets

Integration with Sukhoi 30 MkI jets and LCA jets are in negotiation

MBDA Missile Systems

2001 — after the merger of main missile systems companies in France, Italy and UK.

ASRAAM

Advanced Short Range Missile

just over 25 kms

Within Visual Range Missile

* Dog fight
* Close combat

ASRAAM to be the First Missile in Indian fleet to be launched over the wing

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Worker safety code Bill gets Cabinet approval
It seeks to merge 13 labour laws

SPECIAL CORRESPONDENT
NEW DELHI
A Bill that seeks to merge 13 labour laws into one code on occupational safety, health and working conditions that would apply to all establishments with 10 or more workers was approved by the Union Cabinet on Wednesday, paving the way for its introduction in Parliament.

The Code on Occupational Safety, Health and Working Conditions Bill, 2019, which would impact 40 crore unorganised workers, was approved at a Cabinet meeting chaired by Prime Minister Narendra Modi, Information and Broadcasting Minister Prakash Javadekar said. The Bill was the second of four proposed codes that aim to merge 44 labour laws, with the Code on Wages Bill, 2019 that was approved on July 3 being the first, Labour and Employment Minister of State (independent charge) Santosh Kumar Gangwar said.

He added that the Wages Bill, which covers minimum wages and other wage issues, would be introduced in Parliament in "two or three days".

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⇒ The Code on Occupational Safety, Health and Working Conditions Bill, 2019

- amalgamation, simplification and rationalisation of 13 Central Labour Laws
- Business entities mandatorily required to issue appointment letter
- Annual medical check-up for all workers
- Facilities such as creche, canteen, first aid and welfare officer
- Women to work beyond 7 pm and before 6 am but subject to:
  * Safety
  * Working hours
  * Consent
  * Any other condition by Govt.
  * Holidays

⇒ 44 Central laws in to 14 codes

1. Code on occupational safety, health and working conditions of the labourers
2. Code on wages
3. Code on social security
4. Code on Industrial Relations
PRACTICE QUESTIONS
DISCUSSION

Practice Question – Prelims
Q1. Consider the following statements with reference to Pradhan Mantri Matru Vandana Yojana.

1. The scheme aims to provide cash incentives to Pregnant Women and Lactating mothers for wage loss, so that they can take adequate rest, before and after the delivery of first living child, and the scheme is a central sector scheme.

2. The implementation process of the scheme uses Anganwadi Services scheme of Integrated Child Development Services Scheme.

Which of the above statements is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

Practice Question – Prelims
Q2. Consider the following statements.

1. Shigella infection is caused by a bacterium and it is one of the leading causes of diarrhea in India.

2. Blood transfusion is the leading cause of Shigella infection.

Which of the above statements is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2.
Practice Question – Prelims
Q3. What is ‘ASRAAM’ sometimes seen in the news?
   a) An indigenous Indian missile.
   b) An advanced Air to Air Close Combat Missile.
   c) An advanced Beyond Visual Range Missile.
   d) A defence cooperation between India and Japan.

Practice Question – Mains
GS – I
Q. “India will become the world’s most populous nation by 2027” – World Population Prospects Report 2019. In the backdrop of the above statement, discuss the associated issues and measures to be taken in order to realize the potential of ‘Demographic Dividend’.

Practice Question – Prelims
Answer
Q1. Option ‘b’ – 2 only
Q2. Option ‘a’ – 1 only
Q3. Option ‘b’ - An advanced Air to Air Close Combat Missile.