

B1) The fourth Industrial Revolution will be based on artificial intelligence which in turn depends on "data". What are the factors affecting the location of AI industry globally? Where does India stand in this context?

Answer:

Artificial Intelligence is the simulation of human intelligence processes such as learning, reasoning and self-correction by machines, especially computer systems. Recently it has become prominent due to its multifaceted application.

Factors Affecting the location of AI Industry:

\* Capital:

Countries with potential capital attract AI industries in their land.

\* Data:

The availability of data mined from the digital platforms.

\* Talent:

Countries that create talent in the AI field are a great location for establishing the industry.

\* Government Policies:

Conducive government efforts through policies and infrastructure.

## AI and India:

- India has 2<sup>nd</sup> largest user base of mobile internet connections. This generates lot of data that can be capitalized.
- India stood at 9<sup>th</sup> position in terms of the number of the AI Specialists working in the field.
- AI has been included as an elective subject in CBSE.
- IIT Hyderabad became the 1<sup>st</sup> Indian educational institution to introduce B.Tech in AI.

## Measures taken by the Government:

- A task force on Artificial Intelligence was formed in 2017.
- NITI Aayog released a policy paper "National Strategy for Artificial Intelligence".
- Budget 2019 proposed to launch a national Programme on AI.

## Challenges to India's AI development:

- Lack of enabling ecosystems for data collection and storage.
- Low intensity AI research.

- Unclear privacy, security and ethical regulations
- Insufficient government funding.

### Way Forward:

- Building necessary infrastructure to store the data locally.
- Skilling more people to utilize the new opportunity in AI.
- Protecting the privacy of the citizens.
- AI have to be defined legally.

AI : Artificial Intelligence, with immense scope to fuel 4<sup>th</sup> Industrial Revolution, it becomes important to have a legal framework to support and regulate the growth of AI.