

8. In order to capture the huge opportunity in biotech sector, the government of India needs to fine-tune the production linked incentive scheme to fit the unique needs of the industry. Discuss.

Ans. Biotechnology is also characterized by long development lead times. It can take a decade to get a new drug from the test tube to the pharmacy shelf.

Necessary steps needs to take for India is as follows:-

(i) The Indian Biotech industry comprises of over 5000 companies (760 core companies and 4240 start-ups) and is divided around five major segments:- Bio Pharma, Bio-Agriculture, BioIndustrial, and Combined segment of Bio services comprising of Bio-IT, CROs and Research services.

(ii) The Indian Biotechnology industry that was valued at \$70 bn in 2020 will reach \$180 bn target by 2025.

(iii) The percentage share of its biotechnology segment is:-

(a) Bio-Pharmaceuticals : 62%.

(b) CRO / BioIT / Research : 15%.

(c) Bio-agriculture : 16%.

(d) Bio-Industrial : 7%.

(iv) Rising public health expenditure
government expenditure on healthcare
upto 1.6% in FY20 from 1.3 in FY16,
with a target of 2.5% of the country's
GDP by 2025.

(v) Capacity building initiatives Bolstered
by the 'National Biopharma Mission',
an Industry - Academia mission to skill
the workforce.

(vi) Government acting as an enabler to
improve EODB critical Policy initiative
such as 'Make in India', 'Startup India'
and 'Atmanirbhar Bharat Abhiyan' (boosting
domestic manufacturing capacity).

(vii) Therefore instead of a one-sized fits
all approach, the government needs to
feature the PLI scheme to fit the unique
needs of the biopharmaceutical industry.