

① The Council of Scientific & Industrial Research has undertaken its mission effectively since Independence. Explain.

Established in 1942 as an Autonomous organization, CSIR is the Largest R&D organization in India and 7th in Asia.

Post-Independence

Priorities

CSIR's immediate priority is to develop a number of Laboratories, and make it perform in an independent manner.

Developments

Election ~~is~~ one of the contribution to conduct election preventing fraud and double voting. CSIR innovated an indelible ink made of AgNO_3 - still in use and is also exported.

Industry - In order to address the needs of the country and to enhance growth CSIR involved in several activities

priority

Depend-

↳ Industries Lect
Gratit

↳ Election ink

Leather industry \Rightarrow CSIR-CLRI in 1948 made
1st indigenous technology for transition from
semi-finished and to finished leather material.

GOI - also in 1970s - imposed customs duty and
banned export of ~~such~~ raw material
of leather, which paved the
way for ~~the~~ growth of Industry.

CSIR - enhanced the skill of workers and gained the
manpower which is the hallmark of CSIR.

Technologies - Successful

Green revolution

CSIR's role in green revolution was
production of agro chemicals and mechanisation
of agriculture.

Agro chemicals

For production of agro chemicals CSIR
established Hindustan agrochemicals and
Hindustan chemicals Ltd. (2 PSUs)

Mechanisation of agri

CSIR - started 'Swarnaj traktor' - and 1st indigenous Punjab tractor Ltd \Rightarrow example of successful spinoff from academia to Industry

Generic pharma

Major contribution to generic pharma is production anti-HIV drugs - successful example of Industry-academia collaboration.

Self reliance

CSIR has range of sectors in science and technology that paved way for self reliance

eg: Buffalo milk to powder commercialised with Amul
Atoma mission, Lavender cultivation in J&K \rightarrow purple revolution

According to CSIR the true Atma nibha is to invent technologies & be at its forefront. Future is going to be SST based, but challenges lies with sustainable development with minimal use of natural resource. Hence Scientific community must learn to integrate Nature and Science ~~B~~ for sustainable growth