India’s Potential Role in the Computer Chip Industry

Description

A reliable supply of computer chips is crucial for Arnob Roy, co-founder of Tejas Networks in Bangalore, India. His company provides the technology that supports mobile phone networks and broadband connections. Tejas designs specialized chips for telecoms, which handle large amounts of data from many users at once. These chips are essential for maintaining network reliability and performance.

India has a strong reputation for designing computer chips, with about 20% of the world's semiconductor engineers based there. However, the country does not produce the chips itself. Instead, Indian firms like Tejas send designs to be manufactured abroad. This system faced challenges during the Covid pandemic, which disrupted global chip supplies.

The Indian government has started promoting a domestic semiconductor industry to lessen this dependency. This initiative aims to improve resilience in electronics manufacturing. Amitesh Kumar Sinha, a government official, explained that India is focusing on areas where it can compete, such as assembly and testing of chips.

Recently, Kaynes Semicon became the first Indian company to operate a semiconductor plant, supported by government investments. The factory focuses on assembling and testing chips for sectors like cars and telecoms, rather than the most advanced types. Arnob Roy believes that developing local manufacturing will benefit companies like his in the future, marking the beginning of a long journey for India in semiconductor production.

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Vocabulary List:

1. **Reliability** /rɪˈlaɪ.ə.bɪ.lɪ.ti/ (noun): The quality of being dependable or trustworthy.
2. **Dependency** /dɪˈpɛn.dən.si/ (noun): A situation in which someone or something relies on another for support or supply.
3. **Resilience** /rɪˈzɪl.jəns/ (noun): The ability to recover quickly from difficulties or adapt to change.
4. **Manufactured** /ˌmæn.juˈfæk.tʃəd/ (verb): Produced especially on a large scale using machinery.
5. **Initiative** /ɪˈnɪʃ.ə.tɪv/ (noun): The ability to assess and initiate things independently; an enterprise or project.
6. **Semiconductor** /ˈsɛmɪkənˌdʌktər/ (noun): A material with electrical conductivity between that of a conductor and an insulator used in electronic devices.

Comprehension Questions

Multiple Choice

1. Who is the co-founder of Tejas Networks in Bangalore, India?

   Option: Arnob Roy
   Option: Amitesh Kumar Sinha
   Option: Ratan Naval Tata
   Option: Kaynes Semicon

2. What type of technology does Tejas Networks support?

   Option: Mobile phone networks only
   Option: Broadband connections only
   Option: Both mobile phone networks and broadband connections
   Option: Electrical circuits

3. What percentage of the world's semiconductor engineers are based in India?

   Option: 5%
   Option: 10%
   Option: 15%
   Option: 20%

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4. Which company became the first Indian company to operate a semiconductor plant?

   Option: Tejas Networks
   Option: Amitesh Kumar Sinha
   Option: Ratan Naval Tata
   Option: Kaynes Semicon

5. What aspect of semiconductor production does the Indian government focus on?

   Option: Designing chips
   Option: Manufacturing chips abroad
   Option: Assembly and testing of chips
   Option: Distribution of chips

6. Which country does Tejas Networks send chip designs for manufacturing?

   Option: China
   Option: USA
   Option: Japan
   Option: Germany

True-False

7. Arnob Roy is the sole founder of Tejas Networks.

8. India produces its own computer chips.

9. The Covid pandemic did not affect the global chip supplies.

10. The Indian government is supporting the development of a domestic semiconductor industry.

11. Kaynes Semicon mainly focuses on manufacturing the most advanced types of chips.

12. Arnob Roy sees local manufacturing as beneficial for future semiconductor production in India.

Gap-Fill

13. Tejas Networks designs specialized chips for _____.

14. India has about _____ of the world's semiconductor engineers based there.

15. The Indian government aims to improve _____ in electronics manufacturing.

16. Recently, Kaynes Semicon became the first Indian company to operate a semiconductor plant,

supported by government _____.

17. Arnob Roy believes that developing local manufacturing will benefit companies like his in the

_____.

18. India is focusing on assembly and testing areas of _____ production.

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Answer

Multiple Choice: 1. Arnob Roy 2. Both mobile phone networks and broadband connections 3. 20% 4. Kaynes Semicon 5. Assembly and testing of chips 6. USA
True-False: 7. False 8. False 9. False 10. True 11. False 12. True
Gap-Fill: 13. telecoms 14. 20% 15. resilience 16. investments 17. future 18. chips

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