



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.

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.juˈfækt.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** /ˈsemɪkən.dʌktər/ (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%
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.

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



Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. Which term is used to describe products or services that are only available during specific times of the year?

- Option: Flights
- Option: Nonstop
- Option: Carcinogen
- Option: Seasonal

2. What is a term for the state of relying on something or someone else?

- Option: Additive
- Option: Reliability
- Option: Dependency
- Option: Initiative

3. Which term refers to something that is produced or created through human effort?

- Option: Purity
- Option: Carcinogen
- Option: Manufactured
- Option: Semiconductor

4. What term describes a general direction in which something is developing or changing?

- Option: Purity
- Option: Trend
- Option: Reliability
- Option: Scrutiny

5. What term refers to the rate at which the general level of prices for goods and services is rising?

- Option: Pressure
- Option: Inflation
- Option: Decade
- Option: Tensions

6. Which term describes something that is making a contribution or adding to a cause or effect?

- Option: Accelerating
- Option: Contributing
- Option: Resilience
- Option: Routes



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7. What term is used to describe feelings of anxiety or concern about actual or potential problems?
Option: Enhance
Option: Worries
Option: Pressure
Option: Routes
8. Which term describes the action or process of increasing in speed or rate?
Option: Manufactured
Option: Dependency
Option: Accelerating
Option: Purity
9. What term refers to the continuous physical force exerted on or against an object by something in contact with it?
Option: Seasonal
Option: Pressure
Option: Trend
Option: Decade
10. Which term describes the capacity to recover quickly from difficulties; toughness?
Option: Routes
Option: Resilience
Option: Initiative
Option: Flights

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. The gold necklace was made of 24 _____ gold.
12. The company will conduct a thorough _____ of its financial performance.
13. The new iPhone release is highly _____ by tech enthusiasts.
14. The government's actions are under close _____ from the public.
15. The national park has vast natural _____ of wildlife.
16. The company's profits have _____ increased over the past year.
17. The airline added new international _____ to its schedule.



18. The mayor launched a new environmental _____ to reduce plastic waste.
19. The political debate created high _____ among the candidates.
20. The company celebrated its 50th anniversary marking half a _____ in business.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The new software aims to improve and the user experience.
22. The airline offers direct flights to popular destinations.
23. Some food manufacturers use artificial to enhance flavor and preservation.
24. Exposure to this chemical has been linked to an increased risk of cancer due to its properties.
25. Customers value the company's products for their consistent quality and .
26. The laboratory test confirmed the substance's high level of .
27. The new public transportation system will include additional bus to improve connectivity.
28. predict that the upcoming tax changes will impact consumer spending.
29. The country's oil are being depleted due to increased demand.
30. The company's success is closely tied to its on foreign markets.

Answer

Multiple Choice: 1. Seasonal 2. Dependency 3. Manufactured 4. Trend 5. Inflation 6. Contributing 7. Worries 8. Accelerating 9. Pressure 10. Resilience

Gap-Fill: 11. Karats 12. Review 13. Anticipated 14. Scrutiny 15. Reserves 16. Significantly 17. Flights 18. Initiative 19. Tensions 20. Decade

Matching sentence: 1. Enhance 2. Nonstop 3. Additive 4. Carcinogen 5. Reliability 6. Purity 7. Routes 8. Economists 9. Reserves 10. Dependency

CATEGORY

1. Business - LEVEL3

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