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## MENU

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## Topics Covered



- Summary:
- What is the news?
  - A Cost-Effective Alternative: Fueling Change
  - Designed for Efficiency: A Technical Marvel
  - Beyond Economics: Environmental Considerations
  - A Potential Game Changer: The Road Ahead
  - Conclusion: A Leap Forward for Indian Innovation
  - QuizTime:
  - Are you Ready!
- Read the Below Instructions Carefully:
  - Please Rate!
- Mains Questions:
  - Question 1:
  - Model Answer:
  - Question 2:
  - Model Answer:
  - Relevance to the UPSC Prelims and Mains syllabus under the following topics:
- Prelims:
- Mains:

## **Summary:**

- **Bajaj Auto's Innovation:** Launch of the Bruzer 125, the world's first CNG motorcycle, set for June 18, 2024.
- **Economic and Eco-Friendly:** Offers nearly half the running cost of petrol bikes, targeting budget and eco-conscious riders.
- **Technical Aspects:** Designed for efficiency with exceptional mileage, though detailed specs are awaited.
- **Challenges and Support:** Success hinges on CNG infrastructure and consumer adoption; government support through incentives and awareness campaigns is crucial.

## **What is the news?**

- Bajaj Auto, a household name in the Indian two-wheeler market, is poised to disrupt the industry with the launch of the Bruzer 125 – the world's first CNG motorcycle. Scheduled for release on June 18, 2024, this innovative offering targets the ever-growing segment of budget-conscious and eco-conscious riders in India.

## **A Cost-Effective Alternative: Fueling**

## ***Change***

- The Bruzer 125 emerges at a time when fuel prices are a major concern for Indian consumers. CNG, a cleaner and cheaper alternative to petrol, promises significant cost savings. The editorial mentions a potential running cost reduction of nearly half compared to traditional petrol bikes. This translates to substantial financial benefits for riders, particularly those relying on their motorcycles for daily commutes or commercial purposes.

## ***Designed for Efficiency: A Technical Marvel***

- The Bruzer 125, brainchild of Bajaj's Chief Technical Officer Joseph Abraham, is designed with efficiency in mind. While detailed technical specifications are awaited, the editorial suggests exceptional mileage figures, further enhancing the bike's economic appeal. This potentially positions the Bruzer 125 as a frontrunner in fuel efficiency within the 100-125 cc segment.

## ***Beyond Economics: Environmental Considerations***

- The Bruzer 125's significance extends beyond its

economic benefits. CNG combustion produces lower emissions compared to petrol, contributing to a cleaner environment. In a country grappling with air pollution concerns, the Bruzer 125 presents a viable option for sustainable two-wheeler transportation.

## ***A Potential Game Changer: The Road Ahead***

- The Bruzer 125's launch has the potential to be a game changer for the Indian two-wheeler market. Its affordability, fuel efficiency, and environment-friendly credentials cater to a growing demand for sustainable and cost-effective transportation solutions. The success of the Bruzer 125 could pave the way for wider adoption of CNG motorcycles, not just in India but across the globe.
- However, certain challenges remain. CNG infrastructure development, particularly the availability of refueling stations, will be crucial for widespread acceptance. Additionally, consumer perception and initial adoption rates for this new technology will need to be carefully monitored and addressed.

## ***Conclusion: A Leap Forward for Indian Innovation***

- Bajaj Auto's Bruzer 125 is a testament to Indian innovation and its potential to address the



challenges of affordability and environmental sustainability in the two-wheeler segment. The upcoming launch will be closely watched, not just within India but also by the global automotive industry. The Bruzer 125's success could mark a significant shift towards a greener future for two-wheeled transportation.



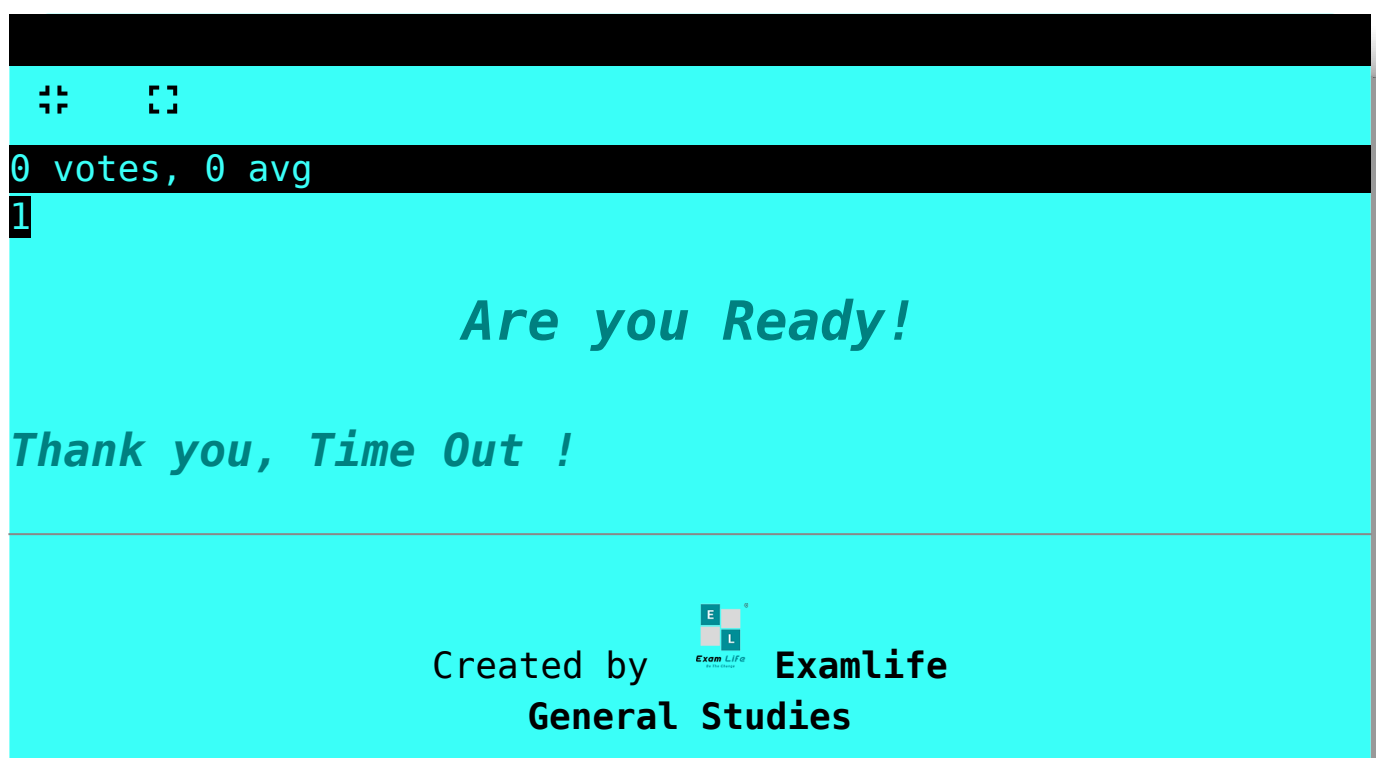
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## QuizTime:




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1

*Are you Ready!*

*Thank you, Time Out !*

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General Studies

## ***Read the Below Instructions Carefully:***

- Click on - Start Quiz
  - Attempt all questions (You can attempt or leave)
  - After Attempting Last Question.
  - Enter Name & Email
  - Click on - Check Result
  - Scroll down - Check out Solutions too.
- Thank you.

Loading ...



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Category: General Studies

***The primary reason behind the launch of the Bajaj Bruzer 125, the world's first CNG motorcycle, is most likely to be:***

- To cater to the growing demand for high-performance motorcycles in India.
- To comply with stricter emission regulations for two-wheeler vehicles.
- To offer a more cost-effective and environment-friendly alternative to petrol bikes.
- To establish Bajaj Auto's dominance in the electric two-wheeler segment.

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Finish

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Category: General Studies

***A key challenge that might hinder the widespread adoption of the Bruzer 125 in India is:***

- The high initial cost of the motorcycle compared to traditional petrol models.
- The lack of public awareness about the benefits of CNG technology in two-wheelers.
- The complex technical specifications associated with CNG-powered engines.
- The limited availability of service centers equipped for CNG motorcycles.

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Finish

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Category: General Studies

***The success of the Bruzer 125 could potentially lead to:***

- A significant decline in the demand for electric two-wheelers in India.
- A decrease in government investment in the development of alternative fuel infrastructure.
- Increased adoption of CNG technology in other vehicle segments like cars.
- A rise in global crude oil prices due to a shift away from petrol-powered vehicles.

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Category: General Studies

***Bajaj Auto's Bruzer 125 launch signifies a trend in the Indian automobile industry towards:***

- Prioritizing luxury features and high-performance engines in two-wheelers.
- Increasing focus on electric mobility solutions for a sustainable future.
- Exploring alternative fuel options to address rising fuel costs and environmental concerns.
- Shifting production base to overseas markets to cater to global demand.

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Category: **General Studies**

***In the context of the Bruzer 125 launch, which of the following statements is MOST likely to be included in a government policy aimed at promoting sustainable transportation?***

- Providing subsidies for the purchase of high-powered motorcycles with advanced emission control technology.
- Encouraging the development of a network of electric vehicle charging stations across the country.
- Offering tax incentives for manufacturers of CNG-powered two-wheeler vehicles.
- Imposing stricter import duties on foreign-made motorcycles to promote domestic production.

Prev

Finish

***Check Rank, Result Now and enter correct email as you will get Solutions in the email as well for future use!***

Check the Result

Your score is

0%

Restart quiz

**Please Rate!**

Send feedback

## ***Mains Questions:***

# **Below Mains Question**

Write in Comment Section



### ***Question 1:***

***The launch of the Bajaj Bruzer 125, the world's first CNG motorcycle, marks a significant development in the Indian two-wheeler industry. Discuss the potential benefits and challenges associated with this innovation. How can the government support the wider adoption of CNG***

## *motorcycles in India? (250 Words)*

### **Model Answer:**

#### Potential Benefits:

- **Cost-Effectiveness:** Significantly lower running costs compared to petrol bikes, benefiting budget-conscious riders and commercial users.
- **Environmental Sustainability:** Reduced emissions compared to petrol, contributing to cleaner air and a more sustainable transportation sector.
- **Energy Security:** Reduced dependence on imported fossil fuels like petrol, potentially enhancing India's energy security.
- **Technological Innovation:** The Bruzer 125 paves the way for further advancements in CNG technology for two-wheelers.

#### Challenges:

- **Infrastructure Development:** Widespread availability of CNG refueling stations across the country is crucial for user convenience.
- **Consumer Awareness:** Creating awareness about the benefits and safety of CNG motorcycles to overcome initial hesitation.
- **Performance and Range:** Addressing any potential limitations in performance or range compared to petrol bikes.
- **Technological Hurdles:** Ensuring the robustness and reliability of CNG-powered engines in two-wheeler applications.

#### Government Support:

- **Financial Incentives:** Provide subsidies or tax breaks for manufacturers and consumers to encourage CNG motorcycle adoption.
- **Infrastructure Investment:** Invest in expanding the network of CNG refueling stations across major cities and highways.
- **Research and Development:** Support research initiatives to improve CNG engine technology for two-wheelers.
- **Public Awareness Campaigns:** Disseminate information about the benefits of CNG motorcycles to educate consumers.

By implementing these measures, the government can create a supportive environment for the wider adoption of CNG motorcycles, promoting cost-effectiveness, environmental sustainability, and technological innovation in the Indian two-wheeler industry.

## **Question 2:**

***The Bruzer 125 launch highlights the potential of alternative fuels in the Indian transportation sector. Critically evaluate the role of CNG as a viable fuel option for different vehicle segments, considering factors like infrastructure, efficiency, and environmental impact. (250 Words)***

## **Model Answer:**

CNG offers several advantages:

- **Cost-Effectiveness:** Generally cheaper than petrol and diesel, providing economic benefits for consumers.
- **Lower Emissions:** Produces fewer pollutants compared to traditional fuels, contributing to cleaner air.
- **Existing Infrastructure:** Leverages existing natural gas pipeline network, reducing infrastructure development needs compared to new fuels.

However, limitations exist:

- **Limited Range:** CNG vehicles typically have a shorter range compared to petrol or diesel counterparts.
- **Infrastructure Gap:** The network of CNG refueling stations needs significant expansion for wider adoption across India.
- **Efficiency:** While cleaner than petrol, CNG combustion isn't entirely emission-free.

CNG can be a viable fuel option for specific segments like city buses, taxis, and commercial vehicles operating on fixed routes. For long-distance travel, other alternatives like electric vehicles might be more suitable. A balanced approach promoting various clean technologies is necessary for a sustainable transportation future in India.

***Remember: These are just sample answers. It's important to further research and refine your responses based on your own***



*understanding and perspective. Read entire UPSC Current Affairs.*

**Relevance to the UPSC Prelims and Mains syllabus under the following topics:**



## **Prelims:**

- **General Studies Paper I : Science and Technology:** This section could include a question on:  
Developments in alternative fuels: Briefly mention the launch of the Bruzer 125 as an example of innovation in CNG technology for two-wheelers.

## **Mains:**

- **Science and Technology in Everyday Life:** Briefly explain the role of alternative fuels like CNG in reducing emissions and promoting sustainable transportation.  
Infrastructure Development: Discuss the

challenges and opportunities associated with developing CNG refueling stations for wider adoption of CNG vehicles.

Energy Sources: Briefly mention CNG as a cleaner alternative to conventional fuels and its potential role in India's energy security strategy.

- **Optional Subjects (if applicable):**The topic could be more directly relevant to optional subjects like: Science and Technology: Questions on advancements in alternative fuel technologies and their impact on the transportation sector.

Energy: A discussion on the role of CNG in India's energy mix, considering its advantages and limitations.



*Click here to read in  
Hindi.*

**CLICK HERE**



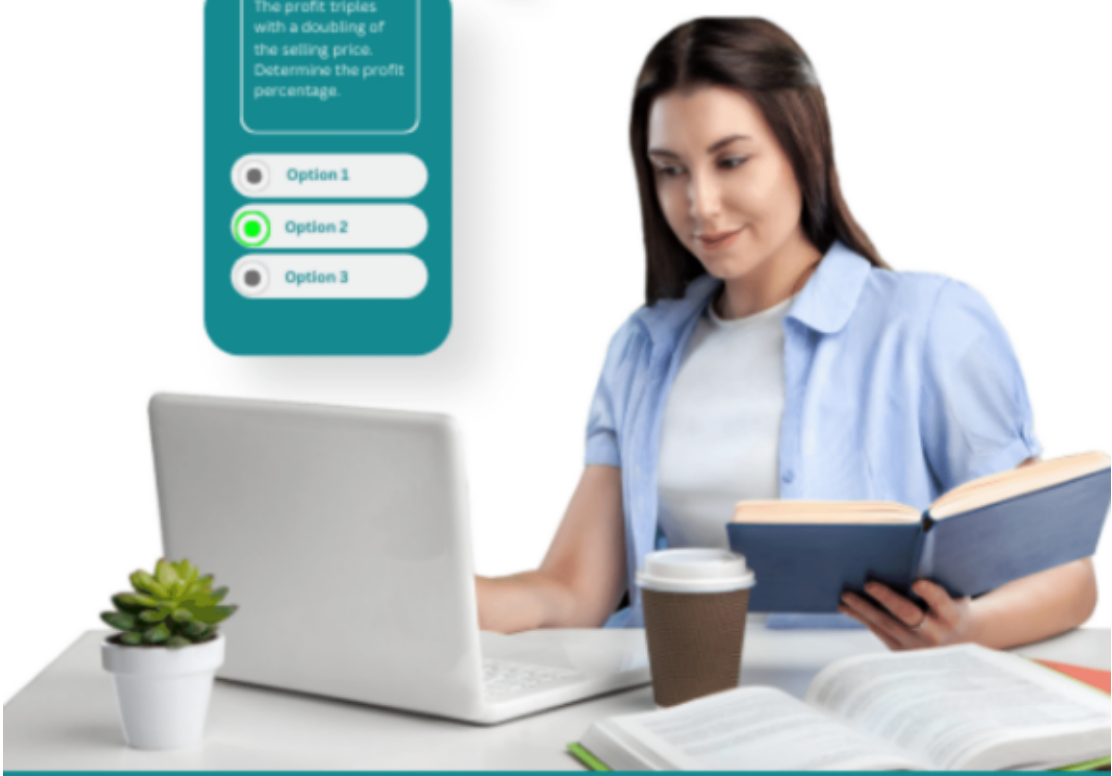
# Quiz Time

The profit triples with a doubling of the selling price. Determine the profit percentage.

Option 1

Option 2

Option 3



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