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        - QuizTime:
        - Are you Ready!
- Read the Below Instructions Carefully:
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- Mains Questions:
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    - Relevance to the UPSC Prelims and Mains syllabus under the following topics:

What is the news?

- Union Minister for Communication, Electronics, IT and Railways Ashwini Vaishnaw launched India's fastest and indigenously developed Multiprotocol Label Switching router in Bengaluru.

Who developed this?

- The high speed router is developed by Nivetti Systems of Bengaluru in collaboration with the Department of Telecom and CDOT.

India's Indigenous Router Advances Digital Supremacy:

- With the launch of its fastest and indigenously developed MPLS router, India took a major step towards technological self-reliance. Bengaluru-based Nivetti Systems, the Department of Telecom, and CDOT led this historic milestone in the nation's digital infrastructure.

Speed Demon on Data Highway:

- The router boasts a staggering capacity of 2.4

terabits per second (Tbps). This translates to the ability to handle massive volumes of data traffic with exceptional efficiency. This is a game-changer for India, which is witnessing an exponential surge in internet usage and data-driven applications. From cloud computing and artificial intelligence to big data analytics, the new router empowers seamless data processing and transmission, paving the way for a more robust and future-proof digital ecosystem.

Digital India: A Self-Reliant Future

- This indigenous router meets Digital India’s lofty aspirations. India moves towards technology self-reliance by minimising its dependency on foreign vendors for vital networking equipment. National prestige and worldwide technological standing are enhanced by this.

Beyond Speed: Secure

- Security is crucial in the digital world. The new MPLS router uses high-security features to prioritise this. This strengthens cyberattack and data breach defences, protecting important network data.

Innovation Catalyst: Brighter Tech Horizon

- This project’s success spurs homegrown innovation. It encourages Indian companies to design and build chips and hardware, boosting the indigenous tech sector. This decreases India’s dependence on foreign technologies and positions it as a future technological leader.

Goal Reached, Journey Begun

- India’s first MPLS router is a milestone, but it’s just the start of a transformation. This achievement shows India’s dedication to a safe, self-sufficient digital infrastructure. It sets the stage for India to lead technological change.

How Indian MPLS Router Will Help?

The development of India’s fastest and indigenously developed MPLS router benefits many parts of the nation’s technology. Here’s how it helps:

Better data processing and transmission:

- *Data processing is faster with the router’s 2.4 Tbps capability. Important for applications like:*

- Cloud computing: Provides fast access to cloud services and apps.
- AI: Processes massive amounts of data for AI algorithms like facial recognition and machine learning.
- Big Data Analytics: Accelerates huge dataset analysis and decision-making.

Improved Digital Infrastructure:

- Increased Network Capacity: High capacity handles more data traffic, improving internet access and reducing congestion.
- Improved Scalability: The infrastructure can readily adjust to data and network expansion.

Increased National Security:

- Reduced Reliance on Foreign Technology: Reduces risks associated with reliance on external suppliers for vital networking equipment, potentially increasing national security.
- Improved Network Security: The router’s built-in security mechanisms protect sensitive network data from cyberattacks and data breaches.

Economic and Technological Growth:

- Encourages Domestic Innovation: The success story encourages Indian companies to invest in chip design and hardware development, boosting the IT industry.
- Cost savings: Less reliance on foreign vendors may reduce networking equipment acquisition and maintenance costs.
  Job Creation: The domestic tech sector grows, creating skilled jobs.
- India’s indigenous MPLS router drives a more resilient, secure, and self-sufficient digital future. It speeds up data processing, improves national infrastructure, and encourages domestic technology innovation.

India’s Indigenous MPLS Router: Vital for Digital India?

Digital India aims to empower a society where technology transforms every element of life. The country’s fastest indigenous MPLS router is a major step towards this aim for various reasons:

1. Critical Technology Self-Reliance:

- The Digital India programme seeks to reduce foreign technology dependence. This indigenous router is a huge step towards that goal. Indian critical networking equipment development decreases dependency on external manufacturers and boosts its technological standing.

2. Better Digital Infrastructure:

- *A strong digital infrastructure relies on a fast, high-capacity router. The efficient transmission and processing of data is vital for efforts like:*

    - Broadband for everyone: The router’s capacity can expand nationwide high-speed internet.
    - E-government services: Online government services run more smoothly with faster data transfer.
    - Cloud computing growth: Businesses and people can use cloud services quickly.

3. Promoting Innovation:

- The project’s success encourages domestic chip and hardware designers. This fosters creativity in the Indian tech sector, which may lead to more indigenous innovations.

4. Privacy, security:

- The router’s security features are essential for network data security. Critical information-handling government agencies and institutions need this. Reducing reliance on foreign providers may reduce security threats.

5. Economic Gains:

- Indigenous router development can save money compared to overseas vendors. A strong local tech industry provides jobs and boosts India’s economy.
- Finally, India’s MPLS router is essential to Digital India’s aspirations. The country’s digital infrastructure, self-reliance, innovation, and future digital security and prosperity are improved.

What are Routers?

- A router directs network data packets. Imagine a neighbourhood with several devices and one mailroom (the internet). Each residence has an IP address. Houses don’t always know the best route for sending mail (data).
- Here comes the router. After reading the IP address, the router decides the best route to transport the data packet. If the recipient is on the same local network, it may transmit the packet straight to them, or it may send it through several routers to reach the internet destination.

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General Studies

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- Enter Name & Email
- Click on - Check Result
- Scroll down - Check out Solutions too.

Thank you.

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Category: **General Studies**

The security features of the indigenous MPLS router are likely to:

○ Offer complete immunity from cyberattacks.

○ Eliminate the need for additional network security measures.

○ Enhance network security and data protection through advanced functionalities.

○ Be compatible only with specific cybersecurity software.

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Category: **General Studies**

A significant implication of India developing its own high-speed MPLS router is:

○ A decrease in internet data plan charges for consumers.

○ A boost for domestic innovation in chip design and hardware development.

○ A mandatory switch to online banking for all financial transactions.

○ A reduction in the use of social media platforms.

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Category: **General Studies**

The high capacity (2.4 Tbps) of the new MPLS router is most beneficial for:

○ Reducing air pollution in major Indian cities.

○ Enabling faster data processing and transmission for applications like big data analytics.

○ Lowering electricity consumption by electronic devices.

○ Increasing the variety of entertainment channels available on television.

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Category: **General Studies**

Consider the following statements about India's indigenous MPLS router:

I. It reduces India's reliance on foreign oil imports.
II. It enables faster data processing for cloud-based applications.
III. It increases the availability of television channels.

Which of the statements are correct?

○ I and II only

○ II and III only

○ I and III only

○ II only

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Category: **General Studies**

The development of this indigenous router aligns with the Digital India initiative's goals by:

○ Providing free laptops to all students across the country.

○ Increasing the number of mobile phone towers in rural areas.

○ Promoting self-reliance in critical technology and strengthening digital infrastructure.

○ Making government services accessible only through mobile applications.

Prev Finish

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Check the Result

Your score is

0%

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Mains Questions:

Question 1:

Explain the significance of India's development of its fastest indigenous Multiprotocol Label Switching (MPLS) router in the context of the Digital India initiative. (250 words)

Model Answer:

The development of India's fastest indigenous Multiprotocol Label Switching (MPLS) router is a significant milestone for the Digital India initiative in several ways:

- Self-reliance: It reduces dependence on foreign vendors for critical networking equipment, fostering self-reliance in the technology sector. This strengthens India's position in the global technological landscape and reduces vulnerability to external factors.
- Strengthened Infrastructure: The high-speed, high-capacity router forms the backbone of a robust

digital infrastructure. It enables efficient data transmission and processing, essential for initiatives like broadband connectivity, e-governance services, and the growth of cloud computing.

- Innovation Ecosystem: The success story inspires domestic companies to invest in chip design and hardware development. This creates a culture of innovation within the Indian tech sector, potentially leading to the development of more indigenous technologies in the future.
- Security and Privacy: The router's built-in security features are crucial for protecting sensitive data on the network. This is particularly important for government agencies and institutions handling critical information.
- Economic Benefits: Indigenous development can lead to cost savings compared to foreign vendors. Furthermore, a thriving domestic tech industry creates new employment opportunities and contributes to overall economic growth.

Overall, the indigenous MPLS router represents a critical step towards achieving the goals of Digital India by promoting self-reliance, fostering innovation, strengthening infrastructure, and paving the way for a more secure and prosperous digital future.

Question 2:

The Multiprotocol Label Switching (MPLS) router

boasts an impressive capacity of 2.4 terabits per second. Discuss how this high speed will benefit various sectors in India. (250 words)

Model Answer:

The high speed (2.4 Tbps) of India's indigenous MPLS router offers significant benefits across various sectors:

- Information and Communication Technology (ICT): It empowers seamless cloud computing services with minimal lag, facilitating tasks like data storage, application access, and remote work.
- Education and Research: High-speed data transfer enables faster access to educational resources, collaboration on research projects, and efficient management of e-learning platforms.
- Healthcare: Faster data transmission allows for quicker medical diagnoses, real-time data exchange between healthcare facilities, and advancements in telemedicine.
- Business and Finance: High-speed connectivity facilitates online transactions, data analytics for informed decision-making, and smooth functioning of financial markets.
- Media and Entertainment: It enables faster content delivery, streaming of high-definition videos, and real-time online gaming experiences.

Overall, the high speed of the MPLS router will act as a catalyst for growth across various sectors in India by enabling faster data processing, efficient communication, and

innovation in diverse fields. This improved connectivity will empower businesses, enhance educational experiences, and revolutionize how Indians access information and services.

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

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

Prelims:

- **General Science Paper (GS Paper I):** This section covers "Awareness in the fields of IT, Space, Computers, robotics, Nano-technology, bio-technology and issues relating to intellectual property rights." (While the router itself isn't mentioned, it relates to IT advancements)

Mains:

- **Science and Technology in General Studies III (Mains):**This section covers “Awareness in the fields of IT, Space, Computers, robotics, Nano-technology, bio-technology and issues relating to intellectual property rights.” (While the router itself isn’t mentioned, it relates to IT advancements)
  You can discuss this development in the context of:
  Achievements of Indians in science and technology (Mains GS III) – Highlighting the indigenous development aspect.
  Developments in the field of Information Technology & Communication (Mains GS III) – Explain the router’s function and its impact on data processing.

- **General Studies III (Mains):**This section focuses on “Indian Economy and its relationship with the world.” You can analyze the economic and technological implications of the indigenous router:
  “Infrastructure – its implications for growth” (Mains GS III) – Discuss how the router strengthens India’s digital infrastructure.
  “Effect of globalization on the Indian economy” (Mains GS III) – Briefly mention how this achievement reduces dependence on foreign vendors.

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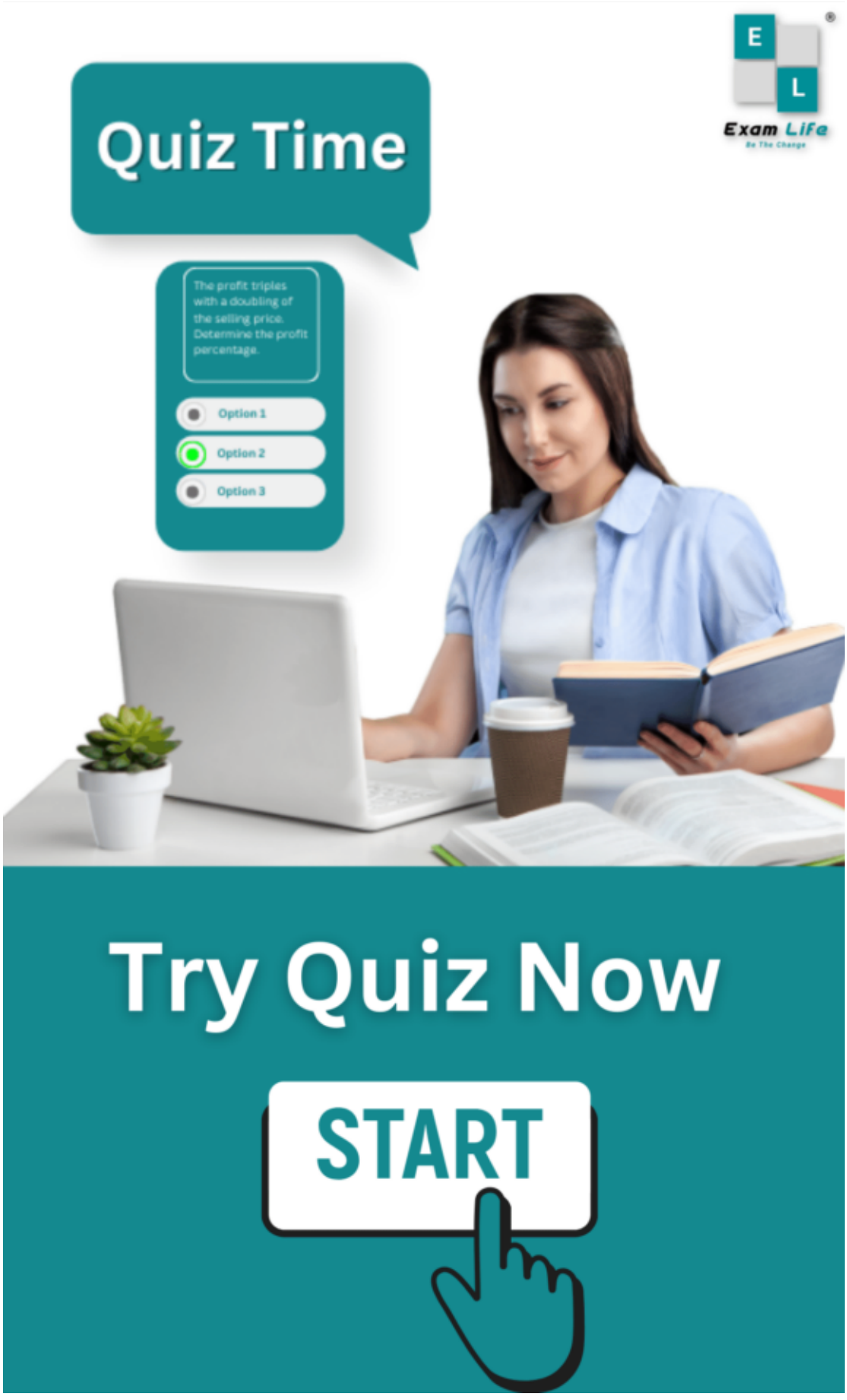
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