



30 September 2024

### National and International News

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| <p><b>Marburg Viral Disease</b></p> | <p><b>Context:</b></p> <ul style="list-style-type: none"> <li>Six people have died in Rwanda following an <b>outbreak of the Marburg virus</b>.</li> </ul> <p><b>About:</b></p> <ul style="list-style-type: none"> <li>Marburg virus disease (MVD) is a severe, often fatal illness caused by the Marburg virus, a member of the <b>filovirus family</b>.</li> <li>It is <b>similar to Ebola virus</b></li> <li>The virus, which also causes bleeding, and organ failure, is known for its high mortality rate.</li> </ul> <p><b>Transmission:</b></p> <ul style="list-style-type: none"> <li>Primarily through contact with infected individuals' bodily fluids, such as blood, saliva, and vomit.</li> <li>Can also be transmitted through contact with <b>infected animals, particularly bats</b>.</li> </ul> <p><b>Symptoms:</b></p> <ul style="list-style-type: none"> <li>High fever</li> <li>Severe headache</li> <li>Muscle aches</li> <li>Severe watery diarrhea</li> <li>Abdominal pain and cramping</li> <li>Nausea and vomiting</li> <li>Chest pain</li> <li>Cough</li> <li>Jaundice</li> <li>Bleeding from various body parts (e.g., nose, gums, eyes, vagina, rectum)</li> <li>Altered mental state</li> </ul> <p><b>Treatment:</b></p> <ul style="list-style-type: none"> <li>Currently, no specific treatment or vaccine is available for MVD.</li> <li>Supportive care, such as fluid replacement, blood transfusions, and treatment for complications, can improve survival rates.</li> </ul> |
| <p><b>6G Network</b></p>            | <p><b>Context:</b></p> <ul style="list-style-type: none"> <li>India is gearing up for the <b>next-generation mobile network, 6G</b>.</li> </ul>   |



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|                                      | <ul style="list-style-type: none"> <li>• <b>Telecom Minister</b> Ashwini Vaishnaw recently met with the working groups of the <b>Bharat 6G Alliance (B6G)</b>, a consortium of academia, industry, and research institutions focused on developing India's 6G technology roadmap.</li> </ul> <p><b>About:</b></p> <ul style="list-style-type: none"> <li>• <b>6G is the planned successor to 5G</b>, promising to revolutionize wireless communication.</li> <li>• It aims to deliver <b>ultra-high speeds</b>, low latency, and massive connectivity, enabling a wide range of new applications and services.</li> </ul> <p><b>Key features and benefits of 6G include:</b></p> <ul style="list-style-type: none"> <li>• <b>Ultra-high speeds:</b> 6G is expected to offer speeds up to <b>100 times faster than 5G</b>, enabling seamless streaming of high-resolution video and virtual reality content.</li> <li>• <b>Low latency:</b> 6G will have significantly lower latency, making real-time applications like remote surgery and autonomous vehicles more reliable and responsive.</li> <li>• <b>Massive connectivity:</b> 6G will support the connection of billions of devices simultaneously, enabling the Internet of Things (IoT) to reach its full potential.</li> <li>• <b>Enhanced reliability:</b> 6G will be more reliable and resilient than previous generations, ensuring uninterrupted connectivity even in challenging environments.</li> </ul> |
| 'Paryatan Mitra' and 'Paryatan Didi' | <p><b>Context:</b></p> <ul style="list-style-type: none"> <li>• The Tourism Ministry launched the <b>"Paryatan Mitra" and "Paryatan Didi" initiatives on World Tourism Day.</b></li> <li>• These programs <b>aim to empower local communities, especially women</b>, to become active participants in the tourism industry.</li> <li>• <b>Paryatan Mitra:</b> This initiative aims to train local residents as tourism ambassadors. They will provide information to tourists, assist with bookings, and promote local attractions.</li> <li>• <b>Paryatan Didi:</b> This initiative focuses on empowering women to become tourism guides and entrepreneurs. It will provide training and support to women in rural areas, enabling them to contribute to the local economy.</li> </ul>  |
| Three Gorges Dam                     | <p><b>Context:</b></p> <ul style="list-style-type: none"> <li>• <b>China's Three Gorges Dam</b>, the <b>world's largest hydroelectric dam</b>, has been found to have a <b>surprising effect on Earth's rotation.</b></li> <li>• By holding a massive amount of water in its reservoir, the dam has shifted the planet's mass distribution.</li> <li>• This, in turn, has <b>slightly slowed Earth's rotation</b>, lengthening the day by a tiny fraction of a second. While the change is minuscule, it's a remarkable testament to the immense scale of human engineering and its potential impact</li> </ul>  |




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## Daily Current Affairs Encyclopedia

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|   | <p>on our planet.</p> <p><b>About:</b></p> <ul style="list-style-type: none"> <li>The Three Gorges Dam is a massive <b>hydroelectric dam</b> spanning the <b>Yangtze River in central China</b>.</li> <li>It's the <b>world's largest power station</b> in terms of installed capacity, generating significant amounts of electricity.</li> </ul>  |
| <p><b>Global Innovation Index</b></p>  | <p><b>Context:</b></p> <ul style="list-style-type: none"> <li>India has made significant strides in innovation, <b>climbing 42 spots in the Global Innovation Index (GII)</b> over the past 9 years.</li> <li>This impressive achievement has positioned India at the <b>39th rank</b> in the 2024 edition of the GI.</li> <li>This upward trajectory reflects the nation's growing emphasis on research and development, technological advancements, and fostering a conducive environment for innovation.</li> </ul> <p><b>Global Innovation Index (GII)</b></p> <ul style="list-style-type: none"> <li>The Global Innovation Index (GII) is an annual ranking of countries based on their ability to generate and implement innovative ideas.</li> <li>It is published by the <b>World Intellectual Property Organization (WIPO)</b> in <b>partnership with Cornell University and INSEAD</b>.</li> </ul> <p><b>Key features of the GI:</b></p> <ul style="list-style-type: none"> <li><b>Comprehensive assessment:</b> The GI measures innovation across a wide range of factors, including institutions, human capital and research, infrastructure, business development, and knowledge and technology outputs.</li> <li><b>Global perspective:</b> The index ranks countries from around the world, providing a global benchmark for innovation performance.</li> <li><b>Policy insights:</b> The GI offers valuable insights for policymakers, helping them to identify areas for improvement and develop strategies to foster innovation</li> </ul> |

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