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Daily current affairs (2025)

1. Which country has recently launched the CR450 prototype, the world's fastest high-speed train?

- [A] France
- [B] China
- [C] Russia
- [D] India

Correct Answer: B [China]

China unveiled the CR450, the world's fastest high-speed train, with test speeds of 450 km/h and a commercial speed of 400 km/h. It surpasses the CR400 Fuxing trains (350 km/h) and reflects breakthroughs in speed, energy efficiency, safety, and comfort. Developed through 200,000 km of tests, 3,000 simulations, and 2,000 platform tests. Features include water-cooled traction, high-stability bogies, and a 20% reduction in energy use. Enhances passenger comfort with noise reduction, spacious cabins, and storage for bicycles and wheelchairs. Aligns with China's plan to expand its rail network to 70,000 km by 2035.

2. Which institute has developed needle-free shock syringes for painless injections?

- [A] IIT Hyderabad
- [B] IIT Delhi
- [C] IIT Bombay
- [D] IIT Madras

Correct Answer: C [IIT Bombay]

IIT Bombay developed a shockwave-based, needle-free syringe for painless drug delivery, reducing skin damage and infection risks. The syringe uses high-energy shockwaves to create a microjet of liquid drug that penetrates the skin without needles. It consists of a driver, driven section, and drug holder, powered by pressurized nitrogen gas. Effective in tests on rats, it showed deeper tissue penetration with minimal skin damage. The device supports over 1,000 uses, needing only nozzle replacements, making it cost-effective. It could accelerate immunization drives like Mission Indradhanush and lower risks of needle-related infections.

3.Vivad Se Vishwas scheme is associated with which sector?

- [A] Agriculture
- [B] Taxation
- [C] Science and Technology
- [D] Education

Correct Answer: B [Taxation]

The Central Board of Direct Taxes (CBDT) extended the deadline for the Vivad Se Vishwas scheme to January 31, 2025, from December 31, 2024. The scheme was announced in Union Budget 2023-24. The Vivad Se Vishwas scheme is modeled on the 2019 Sabka Vishwas Scheme for indirect taxes. It facilitates the settlement of disputed

tax, interest, and penalties. The scheme also grants immunity from prosecution under the Income-tax Act for matters included in the declaration.

4. Who has been appointed as the new Director General of the Central Reserve Police Force (CRPF)?

- [A] A.P. Maheshwari
- [B] Prakash Mishra
- [C] O P Singh
- [D] Vitul Kumar

Correct Answer: D [Vitul Kumar]

Vitul Kumar, a 1993 batch IPS officer from Uttar Pradesh, is appointed Acting Director General of the CRPF after Anish Dayal Singh's retirement. Born in Bhatinda, Punjab, Kumar holds a degree in Electronics Engineering, enhancing his analytical skills in law enforcement. He has held key positions in the CRPF, progressing from Deputy Inspector General in 2009 to Special Director General in 2023. Kumar's awards include the President's Police Medal (2021) and Police Medal (2009).

5. Which state won the Senior National Men's Handball Championship 2024 title?

- [A] Haryana
- [B] Kerala
- [C] Punjab
- [D] Rajasthan

Correct Answer: B [Kerala]

Kerala won their first Senior National Men's Handball Championship title with a 34-31 victory over Chandigarh. Kerala reached the final after a close semi-final win against Services, 23-21. Chandigarh advanced to the final by defeating Indian Railways 32-30. Kerala's Devendar was named 'Best Player of the Championship,' Rahul won 'Best Goalkeeper,' and Sujith was honored as 'Best Left Wing Player.' Services and Indian Railways shared third place in the tournament.

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