

Daily Defence Current Affairs

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Exercise 'Antariksha Abhyas – 2024'

- 'Antariksha Abhyas – 2024', a 3-day Exercise to war-game the growing threats from and to **Space Based Assets and Services**, is being conducted by the Defence Space Agency of **Headquarters Integrated Defence Staff** from 11 - 13 Nov 24.
- Exercise Antariksha Abhyas is a first of its kind exercise being conducted and is expected to help secure national strategic objectives in space and integrate India's space capability in military operations.
- The Space Exercise aims to provide enhanced understanding of space-based assets and services and to gain understanding of operational dependency on space segment between stakeholders.



7th Annual High-Level Meeting in Colombo

- Indian Coast Guard (ICG) and Sri Lanka Coast Guard (SLCG) conducted the 7th Annual High Level Meeting in Colombo on November 11, 2024.
- The meeting underscores the commitment of both the Coast Guards to jointly address maritime chThis annual meeting follows the institutionalised mechanism as outlined in the MoU signed between both the maritime agencies in May 2018. The **8th edition** of the meeting will be hosted by **ICG in 2025**.

- The Indian Coast Guard is a maritime law enforcement and search and rescue agency of India with jurisdiction over its territorial waters including its contiguous zone and exclusive economic zone.
- Founded: 1 February 1977
- Abbreviation: ICG
- Agency executive: S Paramesh, Director General;
- Anniversary: Coast Guard Day: 1 February

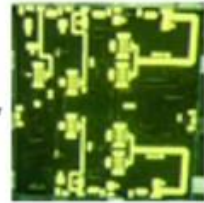


Indigenous Development of Silicon Carbide Wafers

- **Solid State Physics Laboratory**, a DRDO laboratory, has successfully developed indigenous processes for growing and manufacturing **4-inch diameter Silicon Carbide (SiC)** wafers and fabricating Gallium Nitride High Electron Mobility Transistors upto 150W & Monolithic Microwave Integrated Circuits up to 40W for applications up to X-band frequencies.
- GaN/SiC technology is a critical enabler of next-generation applications across defence, aerospace, and clean energy sectors.
- This advanced technology offers improved efficiency, reduced size and weight, and enhanced performance, making it essential for future combat systems, RADARS, electronic warfare systems, and green energy solutions.



SiC Wafer



GaN MMIC

Hezbollah Awaits Truce Deal

- Israel said there was progress in talks about a Lebanon ceasefire and indicated Russia could play a part by stopping Hezbollah rearming via Syria, although the Iran-backed group said it had not received any new truce proposals.
- Pummeled by Israel's offensive, Hezbollah said political contacts were under way involving its backers in Tehran, Washington and Moscow, whilst also saying it had enough weapons for a "long war" and keeping up rocket fire into Israel.
- Syria is widely seen as a major conduit for Iran to supply weapons to Hezbollah in Lebanon, and Israel has struck targets in Syria regularly during the conflict.



BDL Signs MoU with Russia's Rosoboronexport

- Bharat Dynamics Limited (BDL) announced that it has signed a MoU with Russia's Rosoboronexport (ROE) to collaborate on the **Pantsir air defence missile-gun systems.**

- The Pantsir-S1 system is a mobile, short-range air defence system equipped with both missile and gun capabilities. Describing the system, Rosoboronexport in a prior statement said, "Pantsir-S1 Air Defence Missile and Gun System: Perfect protection for any object."
- The Pantsir-S1's capabilities include engaging targets within a range of 1,200 to 20,000 meters using missiles, and 200 to 4,000 meters with gun weapons. The altitude range for missiles is from 15 to 15,000 meters, while guns can engage targets between 0 to 3,000 meters.
- It can also handle up to four targets simultaneously and engage objects moving at speeds of up to 1,000 meters per second.



INS Vela makes port call at Colombo

- The Indian Navy's Kalvari Class Submarine, INS Vela, made a port call at Colombo, Sri Lanka, as part of its deployment on November 10.
- Notably, India and Sri Lanka have a legacy of intellectual, cultural, religious and linguistic interaction and the relationship between the two countries is more than 2,500 years old.
- INS Vela (S24) is the **fourth submarine** of the first batch of **six Kalvari-class submarines** for the Indian Navy. It is a diesel-electric attack submarine based on the Scorpene class, designed by French naval defence and energy group DCNS and manufactured by **Mazagon Dock Limited**, an Indian shipyard in Mumbai.
- **Motto:** Vigilant, Valiant, Victorious



REVIEW QUESTIONS

1. Which class of submarine is INS Vela, which recently made a port call in Colombo, Sri Lanka?

- A. Arihant Class
- B. Shishumar Class
- C. Kalvari Class
- D. Chakra Class

ANSWER: C

2. What type of collaboration has BDL recently entered into with Russia's Rosoboronexport?

- A. Development of ballistic missiles
- B. Collaboration on Pantsir air defence missile-gun systems
- C. Production of Kalashnikov rifles
- D. Development of anti-tank missile systems

ANSWER: B

3. What is the primary focus of the 'Antariksha Abhyas – 2024' exercise?

- A. Training astronauts for space missions
- B. Developing space tourism capabilities
- C. War-gaming threats to space-based assets and services
- D. Expanding satellite communication services

ANSWER: C

4. Which technology has the DRDO's Solid State Physics Laboratory developed for high-frequency applications?

- A. Quantum computing processors
- B. Gallium Arsenide (GaAs) circuits
- C. Silicon Carbide (SiC) wafers and Gallium Nitride (GaN) transistors
- D. Lithium-ion battery cells

ANSWER: C

5. Which Nation Doesn't Participate In Ex Malabar?

- A. Australia
- B. Austria
- C. Japan
- D. USA

ANSWER: B

6. 'Ex AL NAGAH, NASEEM-AL-BAHR, Ex EASTERN BRIDGE' Conducted b/w India &

- A. Qatar
- B. Oman
- C. UAE
- D. Maldives

ANSWER: B

7. Who Is The Chairman Of The National Command Authority Of India?

- A. PM
- B. NSA
- C. Cabinet Secretary
- D. Defence Minister

ANSWER: A

8. 'Ex KOMODO' Hosted By

- A. Qatar
- B. Oman
- C. UAE
- D. Indonesia

ANSWER: D

9. Operational Range of Rudram-1 Is

- A. 150 km**

- B. 250 km
- C. 350 km
- D. 450 km

ANSWER: B

10. Army Air Defence College Is In

- A. Gopalpur, Odisha
- B. Pune, M.H.
- C. Chennai, T.N.
- D. None

ANSWER: A

11. "Sarvatra Izzat-o-Iqbal" Is The Motto Of

- A. Dogra Scouts
- B. Sikkim Scouts
- C. Regiment Of Artillery
- D. None of the above

ANSWER: C

12. Prahaar Missile Manufactured By

- A. MDL
- B. BDL
- C. CSL
- D. DRDO

ANSWER: B

13. Thales Group Is A Company of ___

- A. UK
- B. USA
- C. Germany
- D. France

ANSWER: D

14. Which Of The Following Is Not The Command Location Of The Indian Army?

- A. New Delhi
- B. Lucknow
- C. Pune
- D. Jaipur

ANSWER: A

15. Which Is The 2 Star Rank In The Indian Army?

- A. Brigadier
- B. Major General
- C. Lt Gen
- D. Colonel

ANSWER: B

16. Bratislava Is The Capital

- A. Oman
- B. Serbia
- C. UAE
- D. Slovakia

ANSWER: D

17. "Courts of India" Book Written By

- A. Shashi Tharoor
- B. CJI Ranjan Gogoi (Former)
- C. Roopa Pai
- D. Peter Baker

ANSWER: B

18. World Meteorological Organisation (WMO) Hq Is At

- A. Paris, France
- B. Vienna, Austria
- C. New York, USA
- D. Geneva, Switzerland

ANSWER: D

19. UNICEF Stands For

- A. Union Nations Children's Fund
- B. United Nations Children's Fund
- C. United Nations Children's Future
- D. United International Nations Children's Fund

ANSWER: D

20. __Himalayan pass is situated b/w India and China.

- A. Shenkora

- B. Thalghat
- C. Bhorghat
- D. Shipki La

ANSWER: D



SSBCrack
EXAMS