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CURRENT AFFAIRS**

WEEK-4

22nd April - 30th April, 2021

Targeted Examinations:
**CSE, ESE, PSUs, State Exams,
SSC and Banking Exams**

22nd APRIL 2021

Triple Mutant Variant

- The 'triple mutant variant' or the 'Bengal strain' is a new variant of the Covid-19 virus that has been detected in India.
- Experts say this variant is more infectious and is spreading rapidly. It is predominantly circulating in West Bengal.

About Triple Mutant Variant:

- The Triple Mutant Variant has evolved from double mutation. In the triple mutant variant, three different COVID-19 strains have combined to form a new variant.
- As the name suggests, a 'triple mutant variant' is formed when three mutations of a virus combine to form a new variant. In this case, the three mutations are:
 - A deletion and two changes in spike protein
 - Deletion of H146 and Y145
 - Mutation in E484K and D614G in spike protein
- The 'triple mutant variant' is the second lineage of SARS-CoV-2 virus to be identified in India. It is being called 'B.1.618', and is mostly circulating in West Bengal.
- Earlier, a 'double mutant variant' of the virus was detected in India. It was officially named as 'B.1.617'.

Mars Oxygen In-Situ Resource Utilization Experiment (MOXIE)

- NASA has announced that the Mars Oxygen In-Situ Resource Utilization Experiment (MOXIE) aboard the Perseverance rover was able to produce oxygen from the thin Martian atmosphere for the first time.
- MOXIE produced 5 grams of oxygen from carbon dioxide, enough for an astronaut to breathe for 10 minutes on Mars. It is designed to generate up to 10 grams of oxygen per hour.

Key Points:

- A technology demonstrator, MOXIE is designed to generate up to 10 grams of oxygen per hour, and is placed inside the Perseverance rover.
- It is the size of a car battery, weighing 37.7 pounds (17.1 kg) on Earth, but just 14.14 pounds (6.41 kg) on Mars.
- Over the next two years, MOXIE is expected to extract oxygen nine more times.
- MOXIE was designed by the Massachusetts Institute of Technology (MIT).
- It was built with nickel-alloy. The alloy is heat-resistant and is designated to tolerate temperatures of 1,470 degrees Fahrenheit.

NOTE:

Perseverance landed on Mars on February 18, 2021. It carried the Ingenuity helicopter. The helicopter recently made its successful flight. This was the first flight to another planet.

Countries of Particular Concern (CPC) list

- The USCIRF (US Commission on International Religious Freedom) has recommended classifying India as a Country of Particular Concern (CPC). It is due to the worst violations of religious freedom in India in 2020. The other three countries were Russia, Vietnam and Syria.

Key Points:

- USCIRF recommends the Country of Particular Concern(CPC) designation to the US State Department. It recommends countries engaged in severe violations of religious freedom under IRFA (International Religious Freedom Act) 1998..
- The countries that receive this designation either engage in or tolerate systematic, ongoing, glaring violations of religious freedom.

About USCIRF

- The USCIRF was established by the US Government in 1998 after the enactment of the International Religious Freedom Act.
- The Commissioners of USCIRF are appointed by the President. It mainly aims to review the violations of religious freedom internationally.

23rd APRIL 2021

COVIRAP Technology

- Indian Institute of Technology (IIT) Kharagpur has successfully commercialized its flagship healthcare product COVIRAP the novel diagnostic technology to zero on infectious diseases including COVID-19.

About COVIRAP:

- The COVID-19 diagnostic test can be conducted directly from human swab samples in the portable device developed by the team, without requiring any separate facility for RNA extraction.
- The kit has also been supplemented with a free smartphone app to facilitate unambiguous results interpretation and automated dissemination to the patients.
- For use of the test, the nasal, as well as oral swab samples, are diluted in a solution and tested in the portable device by mixing with reagents that are supplied in a pre-mixed form, test runs automatically in the device without intermediate manual intervention.
- COVIRAP test overcomes several potential bottlenecks faced by similar other tests in the past, for instance, poor performance outside highly controlled laboratory and lack of simple, affordable, yet generic and universal instrument that may be used for home-based testing and community health care for a wide variety of infectious and non-infectious diseases.

Proning for self-care for COVID-19

- The Union Health Ministry has advised 'proning for self care' for coronavirus patients, stating that it is extremely beneficial for such patients with compromised breathing comfort, especially during home isolation.
- Proning is the process of turning a patient with precise, safe motions, from their back onto their abdomen so that the individual is lying face down.

What is Proning?

- Proning is a practice of great potential benefit in COVID-19 disease, several studies, including the Lancet has found.
- The ministry of health explained that the position involves one lying on their stomach face down, which in turn improves ventilation, and makes breathing easy by keeping alveolar units open.
- This is supported by scientific data where hospitalized patients that were prone positioned showed improved oxygenation.
- Four to five pillows are needed for proning. One pillow is placed below the neck, one below the chest and two below the shins. The front of the leg below the knees is called shin.

■ NOTE:

The Alveoli is the primary structural and functional unit of lungs. There are 500 million alveoli in the human lung. They are tiny sacs.

Pradhan Mantri Garib Kalyan Ann Yojana

- The Government of India announced that it will provide five kilograms of free food grains under the Pradhan Mantri Garib Kalyan Ann Yojana. This is to continue till June 2021.
- Around eighty crore beneficiaries are being provided with free food grains (rice or wheat) at a scale of 5 kg per person per month.

Pradhan Mantri Garib Kalyan Ann Yojana

- The scheme was launched in March 2020. It is operated by the Ministry of Consumer Affairs, Food and Public Distribution.
- Considered as the world's largest food security scheme, the Pradhan Mantri Garib Kalyan Anna Yojana aims at ensuring sufficient food for the poor and needy during the coronavirus crisis.
- It was announced as part of the first relief package during the COVID-19 pandemic.
- Part of the scheme, the food needs to be provided to all the beneficiaries under the public distribution system (TPDS) for Antyodaya Anna Yojana (AAY) and priority household (PHH) ration cardholders.
- As per updates, the eligible beneficiaries will receive 5kg of foodgrains and 1 kg Gram per month.

24th APRIL 2021

NASA's SHIELDS Mission

- The SHIELDS Mission was launched by NASA from the White Sands Missile Range in New Mexico. The mission is to investigate light emitted by cosmic particles in the heliosphere.

Key Points:

- SHIELD is an Emission Line Dynamics Spectrometer for Spatial Heterodyne Interferometry. It can reach a maximum altitude of 300 kilometers.
- SHIELDS will investigate the origins of hydrogen atoms in outer space. These atoms contain equivalent amounts of fundamental particles such as electrons and protons. These interstellar hydrogen atoms cross the magnetic lines as their positive and negative charges balance each other.
- The project will monitor the paths of hydrogen atoms as they travel across the heliosphere.
- SHIELDS can look for light emitted by hydrogen atoms. It will determine how much these atoms' wavelengths extend or contract.

Virafin gets DCGI nod

- Zydus Cadila announced that it has received restricted emergency use approval from the Drug Controller General of India (DCGI) to use antiviral drug Virafin for the treatment of moderate COVID-19 infections. Virafin is used to treat Hepatitis B and C.

About Virafin

- COVID-19 patients can heal better if they get a single dose of Virafin during the early stages of infection. It would also aid in the avoidance of complications.
- It would contribute to a reduction in the need for oxygen support.
- In mild cases of COVID-19, virafin shortens healing time.
- According to Zydus 91.15% of adult patients treated with Virafin tested negative using RT-PCR in seven days.

COVISHIELD protects against Double Mutant

- Preliminary studies show that people who have been vaccinated with Covishield have protection against the double mutant variant (B.1.617) first found in India.
- The vaccines were tested against the double mutant variety using the Vitro Neutralisation assay.

Key points:

- Mutation is an alteration in the genetic material (the genome) of a cell of a living organism or of a virus that is more or less permanent and that can be transmitted to the cell's or the virus's descendants.
- Genome sequencing of a section of virus samples by the Indian SARS-CoV-2 Consortium on Genomics (INSACOG), revealed the presence of two mutations, E484Q and L452R together, in virus samples from states such as Maharashtra, Delhi, Punjab and Gujarat.

NOTE:

Vitro Neutralisation Assay is used to detect if an antibody is capable of preventing virus replication. This technique does not detect all antigen-antibody reactions. It only detects antibodies that can block virus replication.

25th APRIL 2021

Gambia eliminated Trachoma

- The Gambia eliminated trachoma after almost four decades of work involving health workers, NGOs and local communities. Ghana became the first African country to eliminate Trachoma in 2018.

What is Trachoma?

- It is a bacterial eye infection that damages the eye lids. It causes the eye lashes to turn inwards. Trachoma is one of the Neglected Tropical Diseases. It leads to irreversible vision losses and blindness if not corrected with surgery.
- Trachoma spreads through personal contact (via hands, clothes or bedding). It also transmits by flies that contact the discharge from an infected person's eyes or nose.
- Trachoma mainly affects children. It is becoming less common with increasing age.
- Repeated infections in childhood lead to scarring of the inner side of the upper eyelids. This will result in the inward turning of the eyelid margin. This painful condition is known as trichomatous trichiasis. If left untreated, this condition can result in visual impairment and blindness.

NOTE:

Elimination programmes in endemic countries are being implemented using the WHO-recommended SAFE strategy.

SpaceX Crew 2

- The SpaceX Crew 2 is the second crewed flight of the Crew Dragon spacecraft. Four astronauts were launched to the International Space Station (ISS) from Florida as part of a collaboration between NASA and SpaceX under the Commercial Crew Program.

About Crew 2:

- It is the second crew rotation of the SpaceX Crew Dragon and the first with international partners.
- Out of the four astronauts, two are from NASA and two are from the Japan Aerospace Exploration Agency (JAXA) and the European Space Agency (ESA).
- Crew-2 astronauts will join the members of Expedition 65 (65th long duration expedition to the International Space Station).
- They will stay aboard the ISS for six months during which time they will conduct science experiments in low-Earth orbit.
- Their central focus during this time will be to continue a series of Tissue Chips in Space studies.

Commercial Crew Programme:

- It is a human space flight programme operated by NASA. It was launched to transport astronauts to and from the International Space Station.
- Unlike previous human spaceflight programs, NASA is a customer buying flights from commercial providers. The agency does not own or operate the spacecraft.
- The program is helping to lower the cost of spaceflight and potentially create a new commercial market for humans in space.

Zhurong: China's first Mars rover

- Chinese government announced that its first Mars rover will be named Zhurong after a traditional fire god. This name fits with the Chinese name for Mars - "Huo Xing" or fire star.

About Zhurong

- Zhurong is China's first Mars rover mission. The rover is aboard the Tianwen-1 space probe. The rover was launched in the Mars orbit Mission in February 2021 and is due to land in May.
- The rover is named after a traditional fire god. The rover's title also fits with the Chinese name for Mars i.e. "Huo Xing" or fire star.
- Zhurong carries multispectral cameras and instruments to analyze the composition of the rocks. It will also investigate subsurface characteristics with ground-penetrating radar.

Tianwen-1 probe

- China is planning to land its Tianwen-1 Mars probe in Utopia Planitia, a rock-strewn plain on the red planet. This is the same landing site where the US lander Viking 2 touched down in 1976. China will become the third country after the US and former Soviet Union to land a rover on Mars.
- China's Tianwen-1 probe aims to analyse and map the Martian surface and geology, looking for water ice and studying the climate and surface environment.

26th APRIL 2021

Zhao: 1st Asian woman to win best director Oscar

- Chinese-born filmmaker Chloe Zhao has become the first Asian woman and only the second woman ever to win Best Director at the Academy Awards.
- She won the award for her film Nomadland.

Academy Awards:

- The Academy Awards are often referred to as the Oscars. They are given for creative and technological excellence in the film industry. They are regarded as the world's most coveted trophies.

- As a reward, the winners get a replica of a Golden Statuette. The award is formally known as the "Academy Award of Merit."
- The award was designed by Cedric Gibbons and sculpted by George Stanley.
- It was first presented in 1929.

NOTE:

Bhanu Athaiya was the first Indian to win an Oscar in 1982. She won the award for Best Costume Design for the movie Gandhi.

Oxygen Concentrator

- As Central and State Governments scramble to procure enough oxygen for hospitals, demand for Oxygen Concentrators has also raised exponentially. The Government of India is to import 10,000 oxygen concentrators.

About Oxygen Concentrator

- An oxygen concentrator is a medical device that concentrates oxygen from ambient air. Atmospheric air has about 78 percent nitrogen and 21 percent oxygen, with other gases making up the remaining 1 per cent.
- The oxygen in the oxygen concentrator is compressed and dispensed through a cannula.
- The oxygen is 90% to 95% pure.
- A pressure valve in the concentrators helps to regulate the supply of oxygen from 1 to 10 litres per minute.
- According to a 2015 report by the WHO, concentrators are designed for continuous operation and can produce oxygen 24 hours a day, 7 days a week, for up to 5 years or more.

NOTE:

Oxygen concentrators are the easiest alternatives to cylinders but can only supply 5-10 litres of oxygen per minute (critical patients may need 40-50 litres per minute) and are best suited for moderately ill patients.

Unicorn Black Hole

- Scientists have discovered what may be the smallest-known black hole in the Milky Way galaxy and the closest to our solar system — an object so curious that they nicknamed it 'the Unicorn.'

About Unicorn

- The black hole has been dubbed 'The Unicorn' in part because it is, so far, one of a kind, and in part because it was found in the constellation Monoceros – "The Unicorn."
- According to the researchers, the black hole is roughly three times the mass of our Sun, testing the lower limits of size for these extraordinarily dense objects.
- The black hole was discovered through an effect called Tidal Distortion.

Tidal Distortion

- Tidal Distortion occurs through gravitational interaction of an astronomical body. For instance, the tidal distortion between the Earth and the moon are higher during no moon and full moon days. The Tidal force stretches a body along the line towards the centre of mass of another body.

27th APRIL 2021

SVAMITVA E-Property Cards

- The Prime Minister launched the distribution of e-property cards under the SWAMITVA scheme on National Panchayati Raj Day (24 April).
- The cards were distributed on the side-lines of National Panchayati Raj Day celebrations.

Svमितva Scheme

- SVAMITVA (Survey of Villages and Mapping with Improved Technology in Village Areas) was launched by the Prime Minister on 24th April 2020.
- It is a Central Sector Scheme to promote a socio-economically empowered and self-reliant rural India.

- The Scheme has the potential to transform rural India using modern technical tools of mapping and surveying.
- It paves the way for using the property as a financial asset by villagers for availing loans and other financial benefits.
- The Scheme will cover around 6.62 Lakh villages of the entire country during 2021-2025.

NOTE:

Property Cards are known as 'Title deed' in Haryana, 'Rural Property Ownership Records (RPOR)' in Karnataka, 'Adhikar Abhilekh' in Madhya Pradesh, 'Sannad' in Maharashtra, 'Svमितva Abhilekh' in Uttarakhand, 'Gharauni' in Uttar Pradesh.

Tissue Chips

- The National Aeronautics and Space Administration recently launched Crew 2 Mission. The mission carried four astronauts to the International Space Station.
- The astronauts are to conduct more than two hundred experiments in space. One of them is using Tissue Chips.

About tissue chips:

- It is a small device that contains human cells in a 3D matrix represents a giant leap in the ability of scientists to test how those cells respond to stresses, drugs and genetic changes.
- About the size of a thumb drive, the devices are known as tissue chips or organs on chips.
- Tissue Chips are small models of human organs that contain multiple cell types that behave similarly to the human body.
- According to NASA, these chips can potentially speed up the process of identifying safe and effective drugs and vaccines.
- Scientists can use these tissue chips in space to study diseases that affect specific human organs, which would take months or years to develop on Earth.

NOTE:

Crew 2 Mission was launched under the Commercial Crew Programme of NASA. It aims to transport cargo and crew to and from the International Space Station.

Ladakh Ignited Minds Project

- To provide better educational opportunities for Ladakhi students, the Indian Army has initiated the project Ladakh Ignited Minds: A Centre of Excellence and Wellness.

About the project:

- The project is aimed at providing better training facilities to disadvantaged Ladakhi students to give them opportunity to study in niche educational institutes.
- The Indian Army has signed a Memorandum of Understanding to implement the project. The MoU has been signed with HPCL (Hindustan Petroleum Corporation Limited) and a Kanpur based NGO called the National Integrity and Educational Development Organisation.
- The project will train forty-five students from Kargil and Leh districts. It will train twenty girls.
- The project will train the students for JEE and NEET entrance examinations.

28th APRIL 2021**E-2025 initiative**

- The World Health Organization (WHO) has identified 25 countries, including three from Africa, with the potential to eradicate malaria by 2025 under its 'E-2025 Initiative', ahead of World Malaria Day 2021.
- Three of the identified countries were from Africa namely Eswatini, Botswana and South Africa.

About E-2025 initiative

- In 2017, WHO launched the E-2020 initiative to support a group of countries to achieve zero indigenous cases of malaria by 2020.

- Some 21 countries across five regions were identified as having the potential to reach the milestone of eliminating malaria.
- The report 'Zeroing in on malaria elimination' brings out the progress made through the E-2020 initiative of WHO.
- Building on the successes of the E-2020, WHO has identified a new group of 25 countries that have the potential to stamp out malaria within a 5-year timeline.
- The E-2025 countries will receive technical and on-the-ground support by WHO and its partners.

Large Area Certification (LAC) Scheme

- The 14,491 ha area of UT of A&N Islands becomes the first large contiguous territory to be conferred with organic certification under 'Large Area Certification' scheme. This is the first large contiguous territory to be certified under government scheme.

Large Area Certification Scheme:

- Department of Agriculture and Farmers Welfare under its flagship scheme of Paramparagat Krishi Vikas Yojna (PKVY) has launched this unique quick certification programme to harness these potential areas.
- Under LAC, each village in the area is considered as one cluster/group.
- All farmers with their farmland and livestock need to adhere to the standard requirements and on being verified get certified in-mass without the need to go under conversion period.
- Certification is renewed on annual basis through annual verification by a process of peer appraisals as per the process of PGS-India.

About Paramparagat Krishi Vikas Yojana

- The program was initiated in 2014 to support organic farming.
- Currently, more than 30 lakh hectares of registered land have organic certification.

- India currently ranks fifth in terms of natural farming area and first in terms of overall number of farmers.

Aditya-L1 Support Cell (AL1SC)

- Aditya-L1 Mission is India's first solar mission planned by the Indian Space Research Organisation (ISRO). Earlier the name was Aditya -1, which has been renamed as Aditya-L1 Mission.
- It is ISRO's second space-based astronomy mission after AstroSat for a scientific expedition to study the Sun. The mission was initially named Aditya 1 which was limited to observing only the solar corona.

About ALISC

- ISRO and ARIES collaborated on this project. The acronym ISRO stands for Indian Space Research Organization, and ARIES stands for Aryabhata Research Institute for Observational Sciences.
- The Centre will house visiting observers and assist them in analyzing the mission's observations by providing data from the mission.
- It would consolidate all of the mission's data into a single interface.

Aditya-L1

- The Aditya-1 mission was conceived as a 400kg class satellite carrying one payload, the Visible Emission Line Coronagraph (VELC) and was planned to launch in a 800 km low earth orbit.
- A Satellite placed in the halo orbit around the Lagrangian point 1 (L1) of the Sun-Earth system has the major advantage of continuously viewing the Sun without any occultation/ eclipses.

29th APRIL 2021

Cycle threshold (Ct) Value in a RT-PCR Test

- According to the ICMR, the current positivity criteria is based on the cycle threshold (CT), which is a measure of how soon after an RT-PCR test, the SARS-CoV-2 is detected in a sample.

- The ICMR documents mention different Ct Values. Also, there are divergent views among the National Centre for Disease Control and also among Niti Aayog.

About Ct value:

- Short for cycle threshold, Ct is a value that emerges during RT-PCR tests.
- In an RT-PCR test, RNA is extracted from the swab collected from the patient. It is then converted into DNA, which is then amplified.
- The Ct value refers to the number of cycles after which the virus can be detected.
- If a higher number of cycles is required, it implies that the virus went undetected when the number of cycles was lower.
- The lower the Ct value, the higher the viral load- because the virus has been spotted after fewer cycles.
- It has been found that the time since the onset of symptoms has a stronger relationship with Ct values as compared to the severity of the disease.

NOTE:

Globally, the accepted Ct value is between 35 and 40..

GNCTD (Amendment) Act comes into force in Delhi

- The Government of National Capital Territory (GNCT) of Delhi (Amendment) Act, 2021, which gives primacy to the Lieutenant Governor (L-G) over the elected government in the city, has come into force.

Key Provisions:

- The Act basically gave more power to the Lieutenant Governor (LG) of the National Capital Territory of Delhi and diminished the elected government's power. The Act also seeks to bring in some clarity on certain subjects in the Government of National Capital Territory of Delhi Act, 1991.

- The Act makes amendments to the Government of National Territory of Delhi Act, 1991.
- It gives more power to the LG in some respects while ensuring the Delhi Legislative Assembly's accountability.
- As per the Act's objects and reasons, it is aimed at ending the absence of clarity on what matters or proposals are needed to be submitted to the LG before orders could be issued.
- It also aims to "further define the responsibilities of the elected government and Lieutenant Governor (LG) in Delhi".

■ NOTE:

The Delhi Legislature was constituted under Article 239AA of the Constitution. By law, the Delhi Legislature has all powers to make laws in matters except public order, land and police.

Python 5 Air to Air Missile

- Recently, India's Indigenous Light Combat Aircraft Tejas has added capability of firing Israeli-origin Python-5 air-to-air missile (AAM) after concluding successful tests.
- Trials were also aimed to validate the enhanced capability of the already integrated Derby Beyond Visual Range (BVR) AAM on Tejas.

About Python 5:

- It is a Python missile of the fifth century.
- Rafael Advanced Defence Systems, an Israeli arms maker, developed the air-to-air missile.
- The Israeli government started producing missiles under the codename "Shafir." Later, when it began selling missiles, it used a western name such as "Python" or "Derby."
- The Python-5 is now Israel's most capable air-to-air missile in its arsenal.
- It is out of sight for warheads. Beyond Visual Range missiles are those that can engage at distances greater than 37 kilometers.

■ NOTE:

Python 5 is an advanced version of Derby. It is also a Beyond Visual Range Missile. An Active Radar Homing Missile is a missile that contains a radar transceiver to find and track the target autonomously.

30th APRIL 2021

Tianhe space station core module

- China launched an unmanned module of its permanent space station that it plans to complete by the end of 2022.
- The module, named "Tianhe", or "Harmony of the Heavens", was launched on the Long March 5B, China's largest carrier rocket.

About Tianhe Module:

- The module will act as the management and control hub of the space station Tiangong with a node that will be able to dock with up to three spacecraft at a time for short days or 2 for a long period.
- The Tianhe module has a total length of 16.6 m, a maximum diameter of 4.2 m, and a take-off mass of 22.5 tonnes. It is the largest spacecraft developed by China.
- As the foundation of the space station, Tianhe will help the aerospace engineers of China to carry out the verification of key technologies. It will include flexible solar wings, a new life support system, and an in-orbit assembly and maintenance.

■ NOTE:

- The Chinese space station is expected to be a competitor to the aging International Space Station (ISS) which is a modular space station in low Earth orbit.
- ISS is a multinational collaborative project involving five participating space agencies which included NASA, (US), Roscomos (Russia), JAXA (Japan), ESA (Europe), and CSA (Canada).

SpaceX Falcon 9 rocket

- Elon Musk-run SpaceX has launched 60 "Starlink" satellites into low-Earth orbit from Cape Canaveral Air Force Station, Florida that will bring cheaper Internet access to the world.
- The 60 mini satellites went into space aboard Falcon 9 rocket, ending a nearly three-month launch hiatus for the company.

SpaceX

- SpaceX was the first private company in the world to return rockets back to the earth. Usually the rockets burn away after putting the satellites on their orbit or simply get thrown away to the space adding up space debris.
- SpaceX was actively involved in delivering cargo to the International Space Station.

■ NOTE:

Under the Starlink project, SpaceX aims to build a constellation of 12,000 satellites. The main objective of the project is to provide space based internet services at affordable costs.

Varuna 2021: India-France Naval Exercise

- The 19th edition of the Indian and French Navy bilateral Exercise VARUNA 2021 was conducted in the Arabian Sea.
- The exercise showcased the increased level of coordination, synergy and interoperability between the friendly navies of India and France.

About Varuna 2021

- This is the first time that the United Arab Emirates (UAE) is participating in the Varuna maritime exercise.
- The 'Varuna' joint exercise is part of the French carrier strike group's 'CLEMENCEAU 21' deployment, which the French Navy is conducting in the eastern Mediterranean, the Gulf and the Indian Ocean (Arabian Sea).
- Its goal is to contribute to the stabilization of these strategic zones and strengthening cooperation with the navies of partner countries, in particular India for the Indian Ocean component.
- As part of this deployment, the Carrier Strike Group is also taking part in anti-ISIS (the Islamic State of Iraq and Syria) operations.

Clemenceau 21

- On February 21, 2021, the French Carrier Strike Group set sail for a long operational deployment called "Clemenceau 21". With this mission, the French Navy deployed its military presence in areas of strategic interests namely Mediterranean Sea, Persian Gulf and the Indian Ocean.

