

**1) Which among the following is India's largest HPC facility in terms of peak capacity and performance launched by Dr. Harsh Vardhan in 2018?**

- a) Shakti
- b) Mihir
- c) Trishul
- d) Agni

**Answer: b)**

Union Minister for Earth Science, Environment, Forest & Climate Change, Dr. Harsh Vardhan dedicated the High Performance Computer (HPC) System named 'Mihir'. It was stated to be India's largest HPC facility in terms of peak capacity and performance.

**2) Rotavac vaccine, an Indian-designed vaccine that passed World Health Organisation Test last year protects against which disease?**

- a) Tuberculosis
- b) Thyphoid
- c) Common Cold
- d) Diarrhoea

**Answer: d)**

The Rotavac vaccine, developed by the Bharat Biotech Limited last year, was included in India's national immunisation programme. For the first time, a vaccine conceived and developed from scratch in India has been "pre-qualified" by the World Health Organisation. Rotavac vaccine protects against childhood diarrhoea caused by rotavirus & was built on strain of the virus isolated at AIIMS.

**3) World Economic Forum announced a new Global Centre for Cybersecurity last year. It was proposed to be headquartered at.....?**

- a) Geneva
- b) United States
- c) Germany
- d) France

**Answer: a)**

The World Economic Forum announced a new Global Centre for Cybersecurity to help build a safe and secure global cyberspace last year. The centre will be based in Geneva, Switzerland, and will function as an autonomous organization under the auspices of the World Economic Forum.

**4) Cyber Surakshit Bharat initiative was launched by which ministry to strengthen cyber security ecosystem in India?**

- a) Ministry of Statistics and Programme Implementation
- b) Ministry of Communications
- c) Ministry of Electronics and Information Technology
- d) Ministry of Information and Broadcasting

**Answer: c)**

The Ministry of Electronics and Information Technology (MeitY) launched Cyber Surakshit Bharat initiative in association with National e-Governance Division (NeGD) and industry partners at an inaugural event in Delhi on January 19, 2018. The move is aimed at strengthening the cybersecurity ecosystem in India, in line with Prime Minister Narendra Modi's vision for a 'Digital India'.

**5) What is the name of the farthest known galaxy in the Universe spotted by NASA in 2018?**

- a) SPT0615-JD
- b) Messier 81
- c) Centaurus A
- d) NGC 5195

**Answer: a)**

NASA scientists spotted the farthest known galaxy in the universe. "SPT0615-JD" galaxy is a cluster of 500 million year-old stars. The image of SPT0615-JD was captured by NASA's Hubble and Spitzer space telescopes.

**6) Which among the following was the 100<sup>th</sup> satellite launched by ISRO from Sriharikota in Andhra Pradesh?**

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- a) GSAT-11
- b) GSAT-31
- c) Cartosat-2
- d) RISAT-2

**Answer: c)**

The Indian Space Research Organisation successfully launched a Cartosat-2 series weather observation satellite, along with 30 other spacecraft, using its Polar Satellite Launch Vehicle (PSLV-C40), which lifted off from the Satish Dhawan Space Centre (SDSC) at Sriharikota, Andhra Pradesh. PSLV successfully launches 31 satellites in a single flight. Isro's Polar Satellite Launch Vehicle, in its 42nd flight, successfully launched the 710-kg Cartosat-2 series remote sensing satellite, along with 30 co-passenger satellites.

**7) Which among the following is the fourth fastest supercomputer in the world dedicated to weather and climate research unveiled by India?**

- a) Sahashra T
- b) Aaditya
- c) Param Yuva 2
- d) Pratyush

**Answer: d)**

Pratyush is the fourth fastest supercomputer in the world dedicated to weather and climate research and follows machines in Japan, USA and UK. India unveiled Pratyush, an array of computers that can deliver a peak power of 6.8 petaflops.

**8) Consider the following statements regarding Parker Solar Probe Mission launched by NASA-**

- 1) It was launched to explore the sun's outer atmosphere
- 2) It has been designed and built by Johns Hopkins University Applied Physics Laboratory
- 3) Goal is to trace flow of energy that heats corona and accelerates solar wind

**Which of the above statements is not correct?**

- a) Only 1
- b) Only 2
- c) Both 1 and 2
- d) All are correct

**Answer: d)**

NASA's Parker Solar Probe is scheduled for launch in 2018 to explore the Sun's outer atmosphere. It will be launched onboard of Delta IV Heavy launch vehicle. It has been designed and built by Johns Hopkins University Applied Physics Laboratory. It is named after solar astrophysicist Eugene Parker. The primary goal of the mission is to trace how energy and heat move through the solar corona and to explore what accelerates the solar wind as well as solar energetic particles.

**9) India's second largest rooftop solar plant was commissioned by GAIL India Ltd. in which of the following Indian state?**

- a) Madhya Pradesh
- b) Gujarat
- c) Uttar Pradesh
- d) Andhra Pradesh

**Answer: c)**

State-owned gas utility GAIL India Ltd commissioned the country's second largest rooftop solar power plant. The firm has installed a 5.76 MWp (Mega Watt peak) solar plant at its petrochemical complex at PataFa in Uttar Pradesh last year.

**10) India's first 5G network trial was conducted by which of the following telecom company 2018?**

- a) BSNL
- b) Airtel
- c) Vodafone India
- d) Reliance Communications

**Answer: b)**

Airtel & Huawei conducted India's 1<sup>st</sup> 5G network trial which took place at Airtel's Network Experience Centre. India plans to roll out 5G services for consumers by 2020.

**11) Which of the following Indian state will set-up India's first artificial intelligence centre?**

- a) Andhra Pradesh
- b) Arunachal Pradesh
- c) Sikkim
- d) Maharashtra

**Answer: d)**

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Maharashtra state govt proposed to set up India's 1<sup>st</sup> institute for artificial intelligence. The AI institute will give a fresh impetus to the 'fourth industrial revolution' & promote Mumbai as an investment destination in innovations & data analysis.

**12) Which among the following is the heaviest rocket launched by SpaceX in the United States?**

- a) Falcon 9
- b) Apollo
- c) Skylab
- d) Space Shuttle

**Answer: a)**

Elon Musk-led space exploration startup SpaceX successfully launched its Falcon 9 rocket, which carried two test satellites for its planned global internet broadband service. The launch was carried out from Vandenberg Air Force Base in California, United States.

**13) Which of the following surface-to-surface missile was test-fired from a mobile launcher from launch complex – 3 of the Integrated Test Range at Chandipur, Odisha?**

- a) Brahmos-A
- b) Pinaka
- c) Prithvi-II Missile
- d) Nirbhay

**Answer: c)**

India successfully conducted a night trial of its indigenously developed nuclear capable Prithvi-II missile last year with a strike range of 350 km, from a test range in Odisha. The surface-to-surface missile was test-fired from a mobile launcher from launch complex-3 of the Integrated Test Range at Chandipur, Odisha.

**14) What is the name given to the new organ found in human body which could help in understanding the spread of cancer within the body?**

- a) Interstitium
- b) Interstellum
- c) Clitellum
- d) None of these

**Answer: a)**

Scientists have identified a new organ "interstitium" in the human body, which could help in understanding the spread of cancer within the body. "Interstitium" is a series of fluid-filled compartments, found beneath the skin, as well as lining of gut, lungs, blood vessels and muscles.

**15) What is the name given to hot and metallic Earth-sized planet discovered by scientists last year?**

- a) K2-229b
- b) M2-390a
- c) K2-677b
- d) G2-966b

**Answer: a)**

Scientists have discovered a hot, metallic, Earth-sized planet-"K2-229b"-orbiting a dwarf star located 339 light-years away. K2-229b is also the innermost planet in a system of at least three planets, though all three orbit much closer to their star than Mercury.

**16) What is the name of an instrument developed by a unit of the Department of Atomic Energy (DAE) to measure traces of uranium in water?**

- a) Fluorimeter
- b) Calorimeter
- c) Lactometer
- d) Manometer

**Answer: a)**

An instrument to measure traces of uranium in water was developed by a unit of the Department of Atomic Energy (DAE) in 2018. The instrument, "Fluorimeter", has been developed by the Raja Ramanna Centre for Advanced Technology (RRCAT), an Indore-based unit of the DAE.

**17) Which among the following rare mineral was discovered by the Geologists at the Cullinan Mine in South Africa?**

- a) Calcium silicate perovskite
- b) Magnesium silicate zemmanite
- c) Aluminium sulphate xanthoconite
- d) Calcium silicate roselite

**Answer: a)**

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Geologists have discovered a mineral known as **calcium silicate perovskite (CaSiO<sub>3</sub>)** trapped inside a tiny diamond that was mined from less than a kilometre of the earth's surface at the Cullinan Mine in South Africa. Calcium silicate perovskite is in abundance in Earth's mantle.

**18) Which among the following institution had set up a radio lab with an array of antennas for "standardisation, research and manufacturing" of 5G equipments?**

- a) IIT Madras
- b) IIT Delhi
- c) IIT Kanpur
- d) IIT Bombay

**Answer: b)**

IIT-Delhi has set up a radio lab with an array of antennas for "standardisation, research and manufacturing" of 5G equipments. A Massive MIMO radio laboratory has been set up at IIT Delhi. This will be the first such lab in India.

**19) What was the name given to the farthest star ever seen by the scientists which is twice as hot as sun?**

- a) Sirius
- b) Antares
- c) Canopus
- d) Icarus

**Answer: d)**

Scientists detected the most distant star, Icarus, ever viewed, located more than halfway across the universe. The star was formally named **MACS J1149+2223 Lensed Star-1**. The star is 9.3 billion light years away from Earth and it is about twice as hot as our sun.

**20) Which among the following is the fourth single element demonstrated by scientists to have unique magnetic properties at room temperature?**

- a) Neptunium
- b) Ruthenium
- c) Actinium
- d) Yttrium

**Answer: b)**

Scientists have demonstrated that the chemical element **ruthenium (Ru)** is the fourth single element to have unique magnetic properties at room temperature. Only 3 elements have been found to be ferromagnetic at room temperature -iron (Fe), cobalt (Co), and nickel (Ni).

**21) Which among the following was world's lightest and the cheapest satellite discovered by the students of Chennai?**

- a) Jai Hind 1-S
- b) Jai Bharat 1-S
- c) Jai Hind 150
- d) Jai Surya 1-B

**Answer: a)**

Four students of Chennai build the world's lightest and cheapest satellite weighing just 33.39 grams. The name of the satellite is '**Jai Hind 1-S**' and was launched in August 2018. It analyses data like temperature, UV density and vapour pressure, at various points of the satellite's upward journey.

**22) What was the name given to the planet discovered by the scientists at Ahmedabad's Physical Research Laboratory in 2018?**

- a) Super-Mars
- b) Super-Neptune
- c) Super-Venus
- d) Super-Saturn

**Answer: b)**

Scientists at Ahmedabad's Physical Research Laboratory have discovered an exoplanet, propelling India into a select group of countries which have found planets outside the solar system. The 'super-Neptune' is about 27 times the mass of Earth and six times its radius.

**23) The 'Sakhi Suraksha' lab India's first advanced forensic lab was inaugurated by Maneka Gandhi in which of the following location?**

- a) New-Delhi
- b) Bangalore
- c) Chandigarh
- d) Mumbai

**Answer: c)**

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Maneka Gandhi laid the foundation stone of an advanced DNA forensic laboratory at the campus of Central Forensic Science Lab in Chandigarh. The 'Sakhi Suraksha' lab will assist in investigation and prosecution of crimes including those committed against women and children.

**24) According to the scientists, which among the following planet will come closest to the Earth until October 2020?**

- a) Mars
- b) Venus
- c) Jupiter
- d) Saturn

**Answer: a)**

At 57.6 million kilometres apart, Mars will be closest to Earth in over 15 years. With Mars and Sun on each side, the rare event will witness all three celestial bodies falling in a straight line. Thus, Mars will be closest to the Earth until October 2020.

**25) What was the duration of the longest lunar eclipse of the century observed by skywatchers around the world in 2018?**

- a) 1 hour 45 minutes
- b) 1 hour 50 minutes
- c) 1 hour 55 minutes
- d) 1 hour 43 minutes

**Answer: d)**

Skywatchers around the world have witnessed the longest "blood moon" eclipse of the 21st Century on July 27, 2018. The eclipse lasted for one hour 43 minutes, and was visible in Europe, West Asia, Africa, Australia, most of Asia and South America.

**26) "Athena" is an internet satellite project of which of the following company that will provide internet connectivity to unserved and underserved areas?**

- a) Microsoft
- b) Google
- c) Facebook
- d) Amazon

**Answer: c)**

Athena is an internet satellite project of Facebook which will provide internet connectivity to unserved and underserved areas. It was proposed to be launched in early 2019.

**27) Project Navlekha which will empower offline newspapers and magazines in India to bring their content online was launched by.....?**

- a) Google
- b) Microsoft
- c) Amazon
- d) Facebook

**Answer: a)**

Google has launched the Project Navlekha, which in Sanskrit means "a new way to write". Project Navlekha will empower offline newspapers and magazines in India to bring their content online.

**28) What was the name given to India's first Hindi speaking robot developed by Ranchi-based software developer Ranjit Srivastava?**

- a) Sophia
- b) Rashmi
- c) Ragini
- d) Laxmi

**Answer: b)**

Ranchi-based software developer Ranjit Srivastava developed the world's first Hindi-speaking humanoid robot. Named Rashmi, the AI-powered robot can also speak Bhojpuri, Marathi, and English, and is equipped with facial expressions and recognition systems.

**29) Which among the following is the communication satellite launched by NASA which will help in increasing the internet speed in the country?**

- a) GSAT-11
- b) GSAT-15
- c) GSAT-17
- d) GSAT-19

**Answer: a)**

Indian Space Research Organisation's heaviest satellite so far the GSAT-11 took off a spaceport in French Guiana on 30 November 2018. The communication

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satellite will help in increasing the internet speed in the country.

**30) Which among the following is India's first underwater robotic drone launched by Kochi-based startup on 14 September 2018?**

- a) Pioneer
- b) Sentinel
- c) Reaper
- d) Eyerovtuna

**Answer: d)**

India's first underwater robotic drone, 'Eyerovtuna', was launched on 14th September 2018. It can send real-time videos of ships and other underwater structures to help with their repair and maintenance. Eyerovtuna was developed by **EyeROV Technologies** which is a Kochi-based Startup.

**31) Virtual currency exchange 'Unocoin' installed India's first cryptocurrency ATM in which of the following location?**

- a) Bengaluru
- b) Mumbai
- c) Gujarat
- d) Pune

**Answer: a)**

A new ATM in Bengaluru's Kemp Fort Mall has become the latest face of the stand-off between India's crypto-community and its banking regulator. The cryptocurrency ATM, India's first, was launched by the virtual currency exchange Unocoin on Oct 14 2018.

**32) Which among the following country has proposed to launch three artificial moons in space in 2022?**

- a) Germany
- b) United states
- c) China
- d) Japan

**Answer: c)**

China is planning to launch three artificial or man-made moon to do away with the need for street lights by 2022. The satellite will be carrying a huge space mirror, which can reflect the sunlight to the earth. The man-

made moon is expected to be put on an orbit within 500 km from the Earth.

**33) Which among the following is an extremely distant dwarf planet discovered by the astronomers on the frigid fringes of our solar system?**

- a) Cerus
- b) Triton
- c) Haumea
- d) Goblin

**Answer: d)**

An extremely distant dwarf planet, named **The Goblin**, has been discovered by the astronomers. The dwarf planet was officially designated as '2015 TG387'. This is the third dwarf planet found to be orbiting on the frigid fringes of our solar system.

**34) Which country has built an 'artificial sun' last year that reaches temperature six times that of the core of the sun?**

- a) France
- b) China
- c) United States
- d) Japan

**Answer: b)**

China has built an 'artificial sun' that reaches temperature six times that of the core of the sun. The reactor named '**Experimental Advanced Superconducting Tokamak**' (EAST) is designed to replicate the processes of the sun as part of a project to turn hydrogen into cost-effective green energy.

**35) Which among the following is India's first microprocessor developed by Indian Institute of Technology Madras?**

- a) Shakti
- b) Apollo
- c) Altera
- d) Atmel

**Answer: a)**

Researchers at Indian Institute of Technology-Madras (IITM) designed and booted up India's first microprocessor, 'Shakti'. The Shakti microprocessor can

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be used in low-power wireless systems and networking systems.

**36) Which among the following is the 35<sup>th</sup> Indian communication satellite built by ISRO for Indian air force?**

- a) GSAT-11
- b) GSAT 7-A
- c) GSAT-19
- d) GSAT-15

**Answer: b)**

The Indian Space Research Organisation (ISRO) will launch communication satellite 'GSAT-7A' from Sriharikota on 19 December 2018. GSAT-7A is the 35th Indian Communication satellite built by the ISRO. The satellite will enable the Indian Air Force to interlink different ground radar stations, ground airbase and airborne early warning and control aircraft.

**37) 'VINBAX' is the first military exercise between which of the following two countries?**

- a) India and Vietnam
- b) Vietnam and Bangladesh
- c) United States and Vietnam
- d) India and Venezuela

**Answer: a)**

The exercise named 'VINBAX' is the first military exercise between the India and Vietnam. Armies of India and Vietnam did a six-day-long military exercise in Jabalpur in Madhya Pradesh last year.

**38) Which among the following Indian state hosted its first ever Defence Expo in April 2018?**

- a) Karnataka
- b) Maharashtra
- c) Tamil Nadu
- d) Gujarat

**Answer: c)**

Tamil Nadu hosted its first-ever bi-annual defence exhibition in April 2018. The exhibition took place from April 11 to 14 and nearly 80 countries participated in it.

**39) What was the name given to indigenously-developed weapon system integrated helicopter that made its maiden appearance in the Republic Day parade?**

- a) Dhruv
- b) Chetak
- c) Cheetah
- d) Rudra

**Answer: d)**

Indigenously-developed weapon system integrated helicopter Rudra made its maiden appearance in the Republic Day parade 2018. Rudra is equipped with Forward Looking Infrared, a 20 mm turret gun, 70 mm rocket pods & anti-tank guided missiles.

**40) The 13<sup>th</sup> edition of Surya Kiran joint military exercise between India and Nepal was hosted by.....?**

- a) Jammu and Kashmir
- b) Andhra Pradesh
- c) Uttarakhand
- d) Odisha

**Answer: c)**

India and Nepal participated in the 13th edition of Surya Kiran joint military exercise in Pithoragarh, Uttarakhand. The military exercise included training on jungle warfare, anti-terrorism combat as well as disaster response activities.

**41) "Lamitye" is joint military exercise between the Indian Army and People's Defence Forces of.....?**

- a) United States
- b) Germany
- c) China
- d) Seychelles

**Answer: d)**

The eighth joint military exercise between the Indian Army and Seychelles People's Defence Forces started at Mahe Island, Seychelles. The exercise is named "Lamitye" which in the local dialect 'Creole' means friendship. The focus of the ongoing exercise is to conduct counter-insurgency and counter-terrorist

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operations in semi-urban environment under the United Nations Charter.

**42) What is the strike range of Agni-II Missile which was test-fired by India from Abdul Kalam Island off Odisha coast?**

- a) 2000 km
- b) 1000 km
- c) 1500 km
- d) 1100 km

**Answer: a)**

India test-fired its medium range nuclear capable Agni-II missile with a strike range of 2,000 km from Abdul Kalam Island off Odisha coast last year. The 20-m-long Agni-II ballistic missile has a launch weight of 17 tonne & can carry a payload of 1,000 kg over a distance of 2,000 kms.

**43) Which among the following is surface-to-surface missile developed under DRDO's Integrated Guided Missile Development Programme with a strike range of 350 km?**

- a) Agni-II
- b) Prithvi-II
- c) Prahaar
- d) Dhanush

**Answer: b)**

India successfully test-fired indigenously developed nuclear-capable Prithvi-II missile. The surface-to-surface missile, which has a strike range of 350 km, is capable of carrying 500-1,000 kg of warheads. Developed under DRDO's Integrated Guided Missile Development Programme, Prithvi-II uses advanced inertial guidance system with manoeuvring trajectory to hit its target.

**44) India's first defence industrial corridor as announced in Union Budget last year will link which of the following two locations?**

- a) Chennai and Indore
- b) Chennai and New-Delhi
- c) Chennai and Pune
- d) Chennai and Bengaluru

**Answer: d)**

The first of the two defence industrial production corridors, as announced in the Union Budget, will link Chennai & Bengaluru and will pass through Coimbatore and several other industrial clusters. The corridor shall provide impetus to the defence production industry in the country and in the region.

**45) Which among the following is the world's fastest supersonic cruise missile successfully flight-tested by India in 2018?**

- a) Prithvi
- b) Prahar
- c) Agni-III
- d) BrahMos

**Answer: d)**

India successfully flight-tested its precision strike BrahMos weapon, which is called the world's fastest supersonic cruise missile. The BrahMos hit its designated target with pin-point accuracy in Pokhran, Rajasthan. The sleek supersonic cruise missile flies at almost three times the speed of sound, at Mach 2.8.

**46) UMANG app, lost and found mobile app for passengers at airports across India was launched in 2018 by.....?**

- a) CISF
- b) BSF
- c) Google
- d) Microsoft

**Answer: a)**

CISF launched its lost and found mobile app for passengers at 59 airports across India. The app, named UMANG (Unified Mobile Application for New-age Governance), offers three facilities –lost and found items at airports, tracking complaints or request status and technical consultancy in security and fire services.

**47) Which among the following is the joint-naval exercise between India and France held in Vasco da Gama, Goa in 2018?**

- a) Sampriti 2018
- b) Varuna 2018
- c) Mitra Shakti 2018

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d) Surya Kiran 2018

**Answer: b)**

The first phase of Indo-French joint naval exercise Varuna 2018 was held on March 19, 2018, at the Mormugao Port Trust (MPT) in Vasco da Gama, Goa. The exercise is being held in the Arabian Sea, off the Goa coast. The second and third phases of the exercise were held at the Chennai coast in April 2018 and in La Reunion Island in May 2018, respectively.

**48) Which among the following country emerged as the 2<sup>nd</sup> biggest arms supplier of India in 2018?**

- a) United States
- b) Russia
- c) Japan
- d) China

**Answer: a)**

The US has rapidly increased its arms sales to India, emerging over the last five years as its second-biggest supplier by providing 15% of its weapons imports. Russia remained by far India's biggest arms seller while Israel moved up to the third spot.

**49) "Juniper Cobra" is the largest combat exercise between which of the following two countries?**

- a) Israel and India
- b) India and US
- c) Iran and Germany
- d) Israel and US

**Answer: d)**

US and Israeli launched the so-called "Juniper Cobra 2018" military drill that simulates a missile attack on Israel. It is the largest combat exercise between Israel and the US.

**50) National Disaster Management Authority conducted its first-ever Mock Exercise on Bio-Disasters last year at which capital city?**

- a) Patna
- b) Chennai
- c) Mumbai
- d) Bhopal

**Answer: a)**

National Disaster Management Authority conducted its first-ever Mock Exercise on Bio-Disasters at Lok Nayak Jayaprakash Airport in Patna last year. The exercise aimed at enhancing the preparedness of Airport Emergency Handlers to respond to CBRN emergencies at the airports.

**51) Which among the following is the joint military exercise between India and Malaysia conducted in April 2018?**

- a) Maitree
- b) Vajra Prahar
- c) Harimau Shakti
- d) Mitra Shakti

**Answer: c)**

The Indian and Malaysian armies conducted a two-week military exercise beginning April 30 2018 in Malaysia. The joint exercise 'Harimau Shakti' took place in the dense forests of Sengai Perdik in Malaysia.

**52) Which among the following was the biggest air combat exercise conducted by Indian Air Force along Pakistan and China border in April 2018?**

- a) Garuda II
- b) Gagan Shakti
- c) Indradhanush II
- d) Cope India

**Answer: b)**

IAF conducted Exercise **Gagan Shakti 2018**, biggest air combat exercise along Pakistan, China borders from April 10 to 23 April 2018. Gagan Shakti will test the LCA across a varied spectrum encompassing Air Defence and Strike capabilities among others.

**53) 'Surya Kiran' is a joint military exercise conducted every year between which of the following two countries?**

- a) India and Nepal
- b) India and Iran
- c) India and Indonesia
- d) India and Srilanka

**Answer: a)**

'Surya Kiran' is the joint military exercise between India and Nepal and is conducted alternatively in India and

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Nepal every six months. Surya Kiran with Nepal is India's largest military exercise in terms of troop participation.

**54) India has signed agreement with which country to procure S-400 Triumf air defence missile systems for the Indian Air Force?**

- a) Germany
- b) United States
- c) China
- d) Russia

**Answer: d)**

S-400 is Russia's most advanced long-range surface-to-air missile defence system. S-400 Triumf can detect, track & shoot down multiple targets including cruise missiles, ballistic missiles, aircraft, drones & UAVs. India has signed a deal with Russia to acquire the S-400 air defence missile system, despite the possibility such a move could trigger US sanctions.

**55) The Border Roads Organisation (BRO) has created history by establishing a road link to India's border with.....?**

- a) South-Korea
- b) China
- c) Pakistan
- d) Indonesia

**Answer: b)**

The Border Roads Organisation (BRO) has created history by establishing a road link to India's border with China beyond Limeking and along the Tama Chung Chung-Taksing Axis last year. The road from Limeking now connects TCC to Taksing, covering a distance of approximately 80 kilometers.

**56) Which among the following is the largest annual military exercise between US and Philippine forces?**

- a) Nomadic Elephant
- b) LAMITYE
- c) Balikatan
- d) COBRA GOLD

**Answer: c)**

US and Philippine forces conducted their largest annual military exercises named Balikatan on 7th May

2018. The Balikatan exercises involved combat drills in mock urban settings to train special forces in battling terrorists.

**57) Which among the following Indian naval ship participated in the 26th edition of RIMPAC exercise 2018?**

- a) INS Vikrant
- b) INS Vikramaditya
- c) INS Satpura
- d) INS Sahyadri

**Answer: d)**

The world's largest biennial multilateral naval exercise Rim of the Pacific (RIMPAC) was conducted on 27th June 2018 off cost Hawaii in the Western Pacific Ocean. Indian Naval Ship Sahyadri participated in the 26th edition of RIMPAC exercise.

**58) The 22nd edition of the Malabar trilateral naval exercise kicked off in June 2018 at Guam in the Pacific Ocean. It is a trilateral naval exercise between.....?**

- a) US, Japan and India
- b) US, Japan and China
- c) US, China and India
- d) China, India and Japan

**Answer: a)**

The 22nd edition of the Malabar trilateral naval exercise of the US, Japan and India was conducted on June 7, 2018 at Guam in the Pacific Ocean. This was the first time that the prestigious Malabar exercise was been conducted off Guam, a major US Naval Base in the Western Pacific.

**59) Which among the following is India's first indigenous long-range artillery gun inducted into the Indian army last year?**

- a) AKM Assault Rifle
- b) NSV Heavy Machine Gun
- c) AK-203 Rifles
- d) Dhanush

**Answer: d)**

India's first indigenous, long-range artillery gun 'Dhanush' cleared its final test last year and ready to be

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inducted into the Indian Army. Dhanush, an indigenous artillery gun of 155 mm x 45mm calibre on the lines of Bofors, has a better rate of fire and a strike range of 38 kilometres. The weapon is the first long-range artillery gun to be produced in India.

**60) Which among the following is the first Indian missile whose life has been extended from 10 to 15 years?**

- a) Trishul
- b) Prithvi
- c) BrahMos
- d) Pinaka

**Answer: c)**

India's indigenously developed surface-to-surface supersonic cruise missile BrahMos was successfully test-fired from Chandipur Test Range off the Odisha coast in 2018. BrahMos is the first Indian missile whose life has been extended from 10 to 15 year.

**61) "Maitree" is a joint military drill between the armies of which of the following two countries?**

- a) India and Srilanka
- b) India and Singapore
- c) India and Thailand
- d) India and Nepal

**Answer: c)**

Exercise Maitree is an annual event designed to strengthen the partnership between Royal Thai Army and Indian Army. The exercise commenced on August 6, 2018 in Thailand.

**62) Which is one of the most advanced Anti-Tank Weapons in the world successfully tested in the ranges of Pokhran in 2018?**

- a) Antitank dog
- b) HELINA
- c) Vickers S
- d) Blacker Bombard

**Answer: b)**

Indigenously developed anti-tank guided missile (ATGM) HELINA has been successfully tested in the ranges of Pokhran. The missile is guided by an Infrared Imaging Seeker (IIR) operating in the Lock on Before

Launch mode. It is one of the most advanced Anti-Tank Weapons in the world.

**63) Barak-8 which is an operational air and missile defence system is jointly developed by India and .....**

- a) Iran
- b) Russia
- c) United States
- d) Israel

**Answer: d)**

Barak-8 is an operational air and missile defence system used by the Israeli Navy as well as by the Indian Navy and air forces. The Barak 8 missile defence system is jointly developed by India and Israel.

**64) .....is the indigenously developed Beyond Visual Range Air-to-Air Missile test-fired by Indian Air Force in September 2018?**

- a) Akash
- b) Ashwin
- c) Astra
- d) Prahaar

**Answer: c)**

Astra missile was successfully test fired by the Indian Air Force, on 26 September 2018 from Air Force Station; Kalaikund. Astra is the indigenously developed Beyond Visual Range Air-to-Air Missile (BVRAAM).

**65) Exercise Aviaindra-18 which is focused towards anti-terrorist operations was held in which country?**

- a) Russia
- b) United States
- c) China
- d) Thailand

**Answer: a)**

Exercise Aviaindra is an Air Force level exercise between India and the Russian Federation. Exercise Aviaindra18 was conducted at Lipetsk, Russia from 17 Sep to 28 Sep 2018 and in Jodhpur, India from 10 Dec to 22 Dec 2018. The aim of the exercise is focused towards anti-terrorist operations.

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**66) Which among the following is the first-ever joint military exercise between India and Japan?**

- a) LAMITYE
- b) DHARMA GUARDIAN
- c) COBRA GOLD
- d) Nomadic Elephant

**Answer: b)**

India and Japan conducted the first-ever joint military exercise 'DHARMA GUARDIAN-2018'. The exercise was held at Counter Insurgency Warfare School, Vairengte, Mizoram from 1 November to 14 November 2018.

**67) 'Hand-in-Hand' is the annual joint army exercise conducted between India and which other country?**

- a) China
- b) Japan
- c) Srilanka
- d) Singapore

**Answer: a)**

India and China conducted the annual joint Army exercise 'Hand-in-Hand' in December 2018 in China's Chengdu region. The scope of the exercise is to understand transnational terrorism and evolve joint drills for the conduct of counter-terrorism operations.

**68) Which among the following exercise was conducted by the Indian Navy and the Royal Navy of United Kingdom in November, 2018?**

- a) Vinbax
- b) Harimau Shakti
- c) Milan
- d) Konkan

**Answer: d)**

The Indian Navy and the Royal Navy of United Kingdom conducted the exercise 'Konkan-2018' at Goa on 28 November 2018. The bilateral exercise provides a platform for the two Navies to periodically exercise at sea and in harbour, so as to build interoperability and share best practices.

**69) The joint military exercise 'Vajra Prahar' between India and the United States was conducted in which capital city of India in 2018?**

- a) Bhopal
- b) Chennai
- c) Jaipur
- d) Mumbai

**Answer: c)**

The joint military exercise 'Vajra Prahar' between India and the United States was conducted in Jaipur on 19 November 2018. The aim is to enhance the interoperability of the two armed forces.

**70) 'EXERCISE INDRA' is the joint military exercise between India and which country?**

- a) Russia
- b) Japan
- c) Thailand
- d) Singapore

**Answer: a)**

The joint military exercise between India and Russia named 'EXERCISE INDRA 2018' on combating insurgency was conducted from 18 November 2018. The exercise was held under the aegis of United Nations (UN) at Babina Field Firing Ranges in Madhya Pradesh.

**71) Which among the following is the bilateral exercise between India and the Indonesian Navy?**

- a) Hand-in-Hand
- b) DHARMA GUARDIAN
- c) Samudra Shakti
- d) KONKAN

**Answer: c)**

Indian and Indonesian Navy's Bilateral Exercise 'Samudra Shakti' was held from 12 to 18 November 2018. The aim of the exercise was to strengthen bilateral relations, expand maritime co-operation, enhance interoperability and exchange best practices.

**72) India's first private sector unit for manufacturing unmanned aerial vehicle was opened in 2018 at.....?**

- a) Hyderabad
- b) Chennai
- c) Andhra Pradesh

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d) Odisha

**Answer: a)**

India's first private sector unit for manufacturing unmanned aerial vehicles (UAVs) was opened at Adani Aerospace Park in Hyderabad. The Adani Aerospace Park facility has been built by the Adani Group and Israel-based Elbit Systems. The facility will develop 'Hermes 900' medium altitude long-endurance UAVs for the Indian and global markets.

**73) How much amount was approved in the Budget by the Union Cabinet for India's Gaganyaan Mission?**

- a) 20,000 crore
- b) 30,000 crore
- c) 15,000 crore
- d) 10,000 crore

**Answer: d)**

The Union Cabinet approved Rs 10,000 crore budget for the proposed human spaceflight mission (Gaganyaan), which envisages to send astronauts to space by 2022. The ambitious project was first announced by Prime Minister Narendra Modi on August 15 as part of his independence speech from the ramparts of Red Fort.

**74) Winter Solstice 2018 which marks the longest day of the year in the Southern Hemisphere took place on.....?**

- a) December 21
- b) January 25
- c) February 29
- d) October 30

**Answer: a)**

In the southern hemisphere, the day with the shortest time between sunrise and sunset is the day of the June (winter) solstice, which falls on or near the 21st of June, and the day with the longest time between sunrise and sunset is the day of the December (summer) solstice, which falls on or near the 21st of December.

**75) Which among the following is India's heaviest and most advanced communication satellite launched into space in 2018?**

- a) GSAT-8

b) GSAT-10

c) GSAT-12

d) GSAT-11

**Answer: d)**

India's next generation high throughput communication satellite, GSAT-11 was successfully launched on December 05, 2018 from Kourou launch base, French Guiana by Ariane-5 VA-246. Weighing about 5854 kg, GSAT-11 is the heaviest satellite built by ISRO.

**76) NCR RASTA and YATRI RASTA App were launched last year by which zone of the Indian Railways?**

- a) North Central Railway
- b) North Eastern Railway
- c) South Eastern Railway
- d) South Central Railway

**Answer: a)**

The North Central Railways (NCR) launched two mobile apps, 'NCR RASTA' and 'Yatri RASTA' in 2018 for its employees and passengers, respectively, for locating assets and stations.

**77) Which among the following country rolled out the world's first hydrogen-powered train in 2018?**

- a) Japan
- b) Russia
- c) China
- d) Germany

**Answer: d)**

Germany launches world's first hydrogen-powered train. Germany has rolled out the world's first hydrogen-powered train, signalling the start of a push to challenge the might of polluting diesel trains with costlier but more eco-friendly technology.

**78) Which among the following is world's first wind-sensing satellite launched by European Space Agency?**

- a) EMISAT
- b) ASTROSAT
- c) Aeolus
- d) HySIS

**Answer: c)**

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The satellite is Aeolus named after guardian of wind in Greek mythology is world's first wind-sensing satellite. It will be placed at altitude of 320km above the Earth. It is part of the Copernicus project, a joint initiative of European Union (EU) and European Space Agency (ESA) to track environmental damage and aid disaster relief operations.

**79) World's first thermal battery-plant was unveiled in which of the following Indian state in 2018?**

- a) Andhra Pradesh
- b) Uttar Pradesh
- c) Madhya Pradesh
- d) Arunachal Pradesh

**Answer: a)**

The world's first-ever thermal battery plant will be unveiled in Andhra Pradesh by the state's Chief Minister N Chandrababu Naidu on August 6, 2018.

**80) 'Digital Literacy Library' to help young people build skills they need to safely enjoy online technology was launched by.....?**

- a) Google
- b) Facebook
- c) IBM
- d) Microsoft

**Answer: b)**

Facebook launched a collection of lessons in Bengali, Hindi, Tamil, Telugu, Kannada and Malayalam to help train three lakh Indian in digital safety. The main reason behind the launch of digital safety lessons in Indian languages is to reach the majority of the Indian population which doesn't speak English.

**81) Which among the following institute unveiled world's first remotely operable LEAP microscope?**

- a) IIT-Delhi
- b) IIT-Kanpur
- c) IIT-Bombay
- d) IIT-Madras

**Answer: d)**

The Indian Institute of Technology (IIT)-Madras commissioned remotely operable Local Electrode Atom Probe (LEAP) microscope. It is claimed to be world's

first remotely operable LEAP microscope, as it can be remotely operated through special terminal by researchers divided geographically.

**82) World's first International centre for human forensics was launched in which capital city of India?**

- a) Chennai
- b) Mumbai
- c) Gandhinagar
- d) Jaipur

**Answer: c)**

The world's first International Centre for Humanitarian Forensics was launched in Gandhinagar, Gujarat. The centre is joint venture of Regional delegation of International Committee of Red Cross (ICCR) in India, Bhutan, Nepal and Maldives and also Gujarat Forensic Science University.

**83) Which among the following was the relay satellite launched by China last year to explore the dark side of Moon?**

- a) Queqiao
- b) Pujiang
- c) Banxing
- d) Gaofen 1

**Answer: a)**

China successfully launched a relay satellite today to enable a rover to communicate with the Earth from the Moon's mysterious far side, as part of the Communist giant's ambitious goal of being the first country to send such a probe. Named Queqiao (Magpie Bridge), the 400-kg satellite has a designed life of three years.

**84) Bangabandhu Satellite-1 which was launched by SpaceX's Falcon 9 Rocket is the first communication satellite of.....?**

- a) Belgium
- b) Bangladesh
- c) Bahrain
- d) Barbados

**Answer: b)**

Bangabandhu Satellite-1 was launched on 11 May 2018, on a SpaceX Falcon 9 launch vehicle at the Kennedy

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Space Center. It is the first payload to be launched using the new Block 5 model of the rocket. It belongs to Bangladesh.

**85) 105<sup>th</sup> Session of Indian Science Congress was inaugurated by PM Narendra Modi in.....?**

- a) Imphal
- b) Jalandhar
- c) Pune
- d) Bangalore

**Answer: a)**

Hon'ble Prime Minister, Narendra Modi inaugurated the five-day Indian Science Congress at Manipur University, Imphal on 16 March, 2018. The focal theme for 105th Indian Science Congress is "Reaching the Unreached through Science and Technology".

**86) Which among the following mission was launched by NASA to explore the ionosphere?**

- a) GOLD
- b) ICON
- c) Both a and b
- d) None of these

**Answer: c)**

NASA launched two missions — GOLD and ICON to explore the ionosphere. The National Aeronautics and Space Administration (NASA) will launch two missions — GOLD and ICON in 2018. They teamed up to explore the ionosphere, located 96 km above Earth's surface.

**87) The 55<sup>th</sup> Anniversary of Sashastra Seema Bal was held in New-Delhi on.....?**

- a) 24<sup>th</sup> December, 2018
- b) 22<sup>nd</sup> October, 2018
- c) 25<sup>th</sup> January, 2018
- d) 30<sup>th</sup> February, 2018

**Answer: a)**

The 55th anniversary of Sashastra Seema Bal (SSB) was held in New Delhi on 24th December 2018. Union Minister of State for Home Affairs, Kiren Rijiju, was the chief guest and he witnessed the raising day parade

along with delegates from Nepal and Bhutan on the occasion.

**88) India celebrated the 47th Anniversary of Vijay Diwas on.....?**

- a) 16<sup>th</sup> August
- b) 16<sup>th</sup> November
- c) 16<sup>th</sup> January
- d) 16<sup>th</sup> December

**Answer: d)**

Vijay Diwas is commemorated every 16 December in India, as it marks its military victory over Pakistan in 1971 during the war for the independence of Bangladesh from Pakistan. The end of the war also resulted in the unilateral and unconditional surrender of the Pakistan Army and subsequent secession of East Pakistan into Bangladesh.

**89) SHINYUU Maitri 2018, first bilateral exercise between Japanese Air Self Defence Force and Indian Air Force was conducted in.....?**

- a) Jaipur
- b) Odisha
- c) Chennai
- d) Agra

**Answer: d)**

The Japanese Air Self Defence Force (JASDF) conducted a bilateral air exercise SHINYUU Maitri-18 with Indian Air Force from 03-07 Dec 18 at A F Station Agra. The theme of the exercise was joint Mobility/Humanitarian Assistance & Disaster Relief (HADR) on Transport aircraft.

**90) Prime Minister inaugurated National Police Memorial at which place on the occasion of National Police Commemoration Day?**

- a) New-Delhi
- b) Madhya Pradesh
- c) Andhra Pradesh
- d) Telangana

**Answer: a)**

The Prime Minister, Shri Narendra Modi, dedicated the National Police Memorial in New-Delhi to the nation, on Police Commemoration Day. The renovated and

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refurbished memorial and museum was inaugurated by the Prime Minister, Narendra Modi, on 21 October 2018, which is also the Police Commemoration Day (Police Martyr's Day) in India.

**91) 86<sup>th</sup> Indian Air Force Day, that seeks to increase the awareness about IAF was celebrated on.....?**

- a) 9 January 2018
- b) 11 May 2018
- c) 8 October 2018
- d) 2 December 2018

**Answer: c)**

The Indian Air Force (IAF) on October 8, 2018 celebrated 86th Air Force Day with an aim to pay rich tribute to the untiring efforts and supreme sacrifice made by veterans, who laid a strong foundation for the service. The day was observed to increase the awareness about the importance of Indian Air Force in any organisation of the national security.

**92) MILEX-18, first military exercise of the BIMSTEC Countries was held in.....?**

- a) Bangalore
- b) Andaman and Nicobar
- c) Pune
- d) Odisha

**Answer: c)**

The Inaugural Edition of the BIMSTEC Nations Military Field Training Exercise i.e. MILEX - 2018 culminated on 16 September 18 after a Validation Exercise and an impressive Closing Ceremony held at Foreign Training Node, Aundh Military Station, Pune.

**93) SLINEX-2018, is a joint naval exercise held at Trincomalee between which of the following two countries?**

- a) India and Indonesia
- b) India and Thailand
- c) India and Singapore
- d) India and Srilanka

**Answer: d)**

The joint exercise between the navies of India and Sri Lanka titled SLINEX-2018 was held in Trincomalee. Three Navy ships from each side along with around 1,000 naval personnel from both countries are participating in the joint drill.

**94) Vostok-2018, is the largest military exercise of which country conducted in September 2018?**

- a) China
- b) Indonesia
- c) Singapore
- d) Russia

**Answer: d)**

Vostok 2018 was a large-scale Russian military exercise, held from 11 to 17 September 2018, throughout Siberia and the country's Far East. The exercise involved units from the Army, Air Force and Navy. China, Mongolia, as well as NATO member Turkey, were invited to the exercise.

**95) Operation Madad and Operation Sahyog were launched in 2018 by Indian Navy to rescue the people in flood-hit.....?**

- a) Kerala
- b) Odisha
- c) West-Bengal
- d) Andaman and Nicobar

**Answer: a)**

Indian Navy has launched Operation Madad, major rescue and relief operation in flood-hit Kerala. Indian Army also has launched Operation Sahyog to rescue people in flood-hit Kerala. Both operations supported rescue and relief efforts of civil administration and National Disaster Relief Force (NDRF).

**96) The 19<sup>th</sup> Anniversary of Kargil Vijay Diwas was celebrated across India on.....?**

- a) 26 July
- b) 26 June
- c) 26 August
- d) 26 November

**Answer: a)**

Kargil Vijay Diwas, named after the successful Operation Vijay, is celebrated in India on 26 July. On

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this date in 1999, India successfully took command of the high outposts which had been lost to Pakistan.

**97) Indian Army inked memorandum of understanding with which bank last year on Defence Salary Package?**

- a) Indian Overseas bank
- b) State bank of India
- c) Union bank of India
- d) Punjab National bank

**Answer: b)**

Indian Army inked memorandum of understanding with State bank of India bank last year on Defence Salary Package.

**98) Which among the following country hosted the first BIMSTEC military exercise held in September 2018?**

- a) India
- b) China
- c) Singapore
- d) Thailand

**Answer: a)**

India hosted the first military exercise of the BIMSTEC (Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation) Countries in September 2018 in Pune, Maharashtra.

**99) Border Roads Organisation celebrated its 58<sup>th</sup> Raising day on.....?**

- a) 8 May 2018
- b) 7 May 2018
- c) 18 May 2018
- d) 10 May 2018

**Answer: b)**

On the occasion of its Raising Day on May 7, the Border Roads Organisation (BRO), a leader in the arena of infrastructural development in the border areas of the country, celebrated 58 years of glorious service to the nation. Since its inception in 1960, the organisation has gone from strength to strength, and numerous projects undertaken by them has been vital for the territorial integrity and the socio-economic uplifting of even the most remote corners of the country, as well as in its neighbours.

**100) InSight Mission was launched by NASA to explore which of the following planet of solar system?**

- a) Mars
- b) Venus
- c) Saturn
- d) Jupiter

**Answer: a)**

InSight is a Mars lander designed to give the Red Planet its first thorough checkup since it formed 4.5 billion years ago. InSight landed on Mars on November 26, 2018.