



ACE

Engineering Academy

Head Office : Sree Sindhi Guru Sangat Sabha Association, # 4-1-1236/1/A, King Koti, Abids, Hyderabad – 500001

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30 in 30 days for March/19 - Detailed solutions

01. Ans: (D)

Exp:

- As part of the ongoing India Bangladesh defence cooperation, a joint military exercise Sampriti-2019 is being conducted at Tangail, Bangladesh from 02 March to 15 March 2019.
- This is the eighth edition of Exercise Sampriti. The participating contingents marched in and stood side by side and gave a ceremonial salute to the national flags of both the countries to the strains of “Jana Gana Mana” and the “Amar Shonar Bangla”.
- The Bangladesh contingent was represented by 36 East Bengal Battalion, while Indian side was represented by 9th Battalion the Rajputana Rifles.
- The aim of the exercise is to increase mutual cooperation, bonhomie and camaraderie between the two armies through interoperability and joint tactical exercises. A company group from Bangladesh Army and an equal number from Indian Army are taking part in the two-week long exercise that will see them hone their tactical and technical skills in countering insurgency, counter terrorism and aid to civil authorities for disaster management in an UN peace keeping scenario involving a combined deployment at a battalion level.

02. Ans: (B)

Exp:

- A currency swap between two countries is an agreement or contract to exchange currencies (of the two countries or any hard currency) with predetermined terms and conditions.
- It is done often between two central banks.
- The main purpose of currency swap by a central bank like the RBI is to get the foreign currency from the issuing foreign central bank at the predetermined conditions (like exchange rate and the volume of currency) for the swap.
- It also supports the domestic currency and foreign exchange market.
- It also helps in keeping the value of the foreign exchange reserves kept with the central bank.

03. Ans: (C)

Exp:

- Reserve Bank has been guided by the objective of developing deep and liquid on-shore financial markets that act as a price setter of the Rupee globally.
- The focus of policy efforts has been to align incentives for non-residents to gradually move to the domestic market while at the same time improving market liquidity to promote hedging activity on-shore. With this objective, RBI had announced, in the Statement on Developmental and Regulatory Policies dated February 7, 2019, the setting up of a Task Force on Offshore Rupee Markets.
- The Task Force shall examine the issues relating to the offshore Rupee markets in depth and recommend appropriate policy measures that also factor in the requirement of ensuring the stability of the external value of the Rupee.
- The Task Force shall submit its report by the end of June 2019.
- Accordingly, RBI has constituted the Task Force on Offshore Rupee Markets. The Task Force will have the following composition:
 - a. Smt. Usha Thorat, former Deputy Governor, Reserve Bank of India - Chairperson
 - b. Nominee from the Department of Economic Affairs, MoF, Government of India - Member
 - c. Nominee from the Securities & Exchange Board of India - Member
 - d. Shri Ajit Ranade, Chief Economist of the Aditya Birla Group - Member
 - e. Shri Sajjid Chinoy, Chief Economist, India, JPMorgan - Member
 - f. Shri Surendra Rosha, CEO, India, HSBC - Member
 - g. Adviser-in-charge, Department of Economic Policy and Research, RBI - Member
 - h. Chief General Manager, Financial Markets Regulation Dept., RBI – Member Secretary
- The terms of reference of the task force are:
 - a. Assess the causes behind the development of the offshore Rupee market;
 - b. Study the effects of the offshore markets on the Rupee exchange rate and market liquidity in the domestic market;
 - c. Recommend measures to address concerns, if any, arising out of offshore Rupee trading;
 - d. Propose measures to generate incentives for non-residents to access the domestic market;
 - e. Examine the role, if any, International Financial Services Centres (IFSCs) can play in addressing these concerns;
 - f. Any other relevant issue(s) the Task Force considers relevant to the context.

04. Ans: (B)

Exp:

- 102nd Constitution Amendment Act, 2018 provides constitutional status to the National Commission for Backward Classes (NCBC) and added Article 338(B).
- It has the authority to examine complaints and welfare measures regarding socially and educationally backward classes.
- Previously NCBC was a statutory body under the Ministry of Social Justice and Empowerment.

Article 338	National Commission for Schedule Caste
Article 338 (A)	National Commission for Schedule Tribes
Article 338 (B)	National Commission for Backward Classes

05. Ans: (D)

Exp:

- Exercise Red Flag is a two-week advanced aerial combat training exercise held several times a year by the United States Air Force.
- The purpose is to offer realistic air-combat training for military pilots and other flight crew members from the U.S., NATO and other allied countries.
- Each year, four to six Red Flag exercises are held at Nellis Air Force Base, Nevada, while up to four more, dubbed Red Flag – Alaska, are held at Eielson Air Force Base, Alaska.
- Red Flag exercises are conducted under the aegis of the United States Air Force Warfare Centre (USAFWC) at Nellis.
- They are run by the 414th Combat Training Squadron (414 CTS) of the 57th Wing (57 WG). They use "enemy" hardware and live ammunition for bombing exercises within the adjacent Nevada Test and Training Range (NTTR).

06. Ans: (C)

Exp:

- On 20 December 2013, the Sixty-eighth session of the United Nations General Assembly decided to proclaim 3 March as World Wildlife Day to celebrate and raise awareness of the world's wild fauna and flora.
- The date marks the adoption of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) in 1973, which plays an important role in ensuring that international trade does not threaten the species' survival.

- With 183 Member States, CITES remains one of the world's most powerful tools for biodiversity conservation through the regulation of trade in wild fauna and flora.

07. Ans: (B)

Exp:

- India and four rhino range nations have signed a declaration 'The New Delhi Declaration on Asian Rhinos 2019' for the conservation and protection of the species at the recently held Second Asian Rhino Range Countries meeting at New Delhi.
- India will collaborate with Bhutan, Nepal, Indonesia and Malaysia to increase the population of three species of Asian rhinos, including the Greater one-horned rhinoceros found in the Indian sub-continent.
- The declaration was signed to conserve and review the population of the Greater one-horned, Javan and Sumatran rhinos every four years to reassess the need for joint actions to secure their future.
- The declaration includes undertaking studies on health issues of the rhinos, their potential diseases and taking necessary steps; collaborating and strengthening wildlife forensics for the purpose of investigation and strengthening of transboundary collaboration among India, Nepal and Bhutan for the conservation and protection of the Greater one-horned rhino.

08. Ans: (D)

Exp:

- India has signed a \$3-billion deal with Russia for leasing a nuclear-powered attack submarine for the Indian Navy for a period of 10 years.
- Under the pact, Russia will have to deliver the Akula class submarine, to be known as Chakra III, to the Indian Navy by 2025.
- It will be the third Russian submarine to be leased to the Navy. India Navy has taken two more submarines from Russia on lease.
- The first Russian nuclear-powered submarine — christened INS Chakra — was taken in 1988 under a three year lease. A second INS Chakra was taken on lease in 2012 for a period of 10 years.

09. Ans: (C)

Exp:

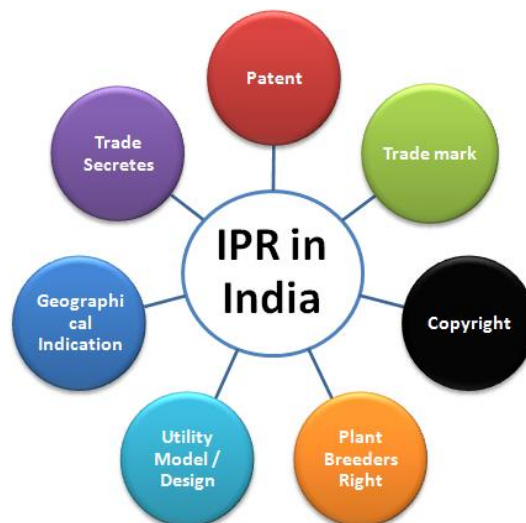
- I. Hand In Hand - Opening ceremony for the 7th Sino-India joint exercise Hand-in-Hand 2018, scheduled from 10 to 23 December 2018 was held on 11 December 2018 at Chengdu, China
- II. Sampriti – As part of the ongoing India Bangladesh defence cooperation, a joint military exercise Sampriti-2019 is being conducted at Tangail, Bangladesh from 02 March to 15 March 2019.

- III. Al Nagah – The third edition of joint military training exercise between Indian Army and Royal Oman Army, Exercise AL NAGAH 2019 concluded at Jabel AI Akhdar training camp, Oman on 25 March 2019.
- IV. Varun – The annually held Varuna naval exercise is an integral part of France–India strategic relations. The latest edition of Varuna exercise that is the 17th edition held between 1 May 2019 to 10 May 2019 at Goa coast.

10. Ans: (D)

Exp:

- IPR is prerequisite for better identification, planning, commercialization, rendering, and thereby protection of invention or creativity. The main social purpose of protection of copyright and related rights is to encourage and reward creative work.



11. Ans: (A)

Exp:

- Dhanush is the first indigenous artillery gun with a calibre of 155mm x 45mm.
- It is the first long range artillery gun to be produced in India, having a range of 38 km, which is equipped with a navigation- based sighting system, on board ballistic computation and an advanced day and night direct firing system.
- It has been developed by Ordnance Factory Board (OFB), Kolkata based on requirements of Indian Army and manufactured by Jabalpur-based Gun Carriage Factory (GCF) and 81 % of its components are indigenously sourced.
- It is also referred to as Desi Bofors because Bofors had played a crucial role in targeting Pakistani military positions during the 1999 Kargil War, and similarly has a 155 mm calibre.

12. Ans: (A)

Exp:

- In view of the growing significance of FinTech innovations and their interface with the financial sector as well as financial sector entities, the Financial Stability and Development Council - Sub Committee had decided to set up a Working Group (WG), to look into and report on the granular aspects of FinTech and its implications, so as to review and reorient appropriately the regulatory framework and respond to the dynamics of the rapidly evolving FinTech scenario.
- Reserve Bank of India set up an inter-regulatory WG under the chairmanship of Executive Director, Department of Banking Regulation (DBR) to look into and report on the granular aspects of FinTech, to leverage on the developments in FinTech space.
- The WG included representatives from RBI, SEBI, IRDA, PFRDA, NPCI, IDRBT, select banks and rating agencies.
- The 'Report of the WG on FinTech and Digital Banking' was placed in public domain in February 2018. One of the key recommendations of the WG was to introduce an appropriate framework for a 'Regulatory Sandbox' within a well-defined space and duration.

13. Ans: (C)

Exp:

- It was constituted under Section 410 of the Companies Act, 2013 for hearing appeals against the orders of National Company Law Tribunal.
- NCLAT is also the Appellate Tribunal for hearing appeals against the orders passed by NCLT(s) under Section 61 of the Insolvency and Bankruptcy Code, 2016 (IBC).
- NCLAT is also the Appellate Tribunal for hearing appeals against the orders passed by Insolvency and Bankruptcy Board of India under Section 202 and Section 211 of IBC.
- NCLAT is also the Appellate Tribunal to hear and dispose of appeals against any direction issued or decision made or order passed by the Competition Commission of India (CCI).

14. Ans: (C)

Exp:

- Outer Space Treaty, formally Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, Including the Moon and Other Celestial Bodies, (1967), international treaty binding the parties to use outer space only for peaceful purposes.
- In June 1966 the United States and the Soviet Union submitted draft treaties on the uses of space to the United Nations. These were reconciled during several months of negotiation in the Legal Subcommittee of the UN Committee on the Peaceful Uses of Outer Space, and the resulting document

was endorsed by the UN General Assembly on Dec. 19, 1966, and opened for signature on Jan. 27, 1967.

- The treaty came into force on Oct. 10, 1967, after being ratified by the United States, the Soviet Union, the United Kingdom, and several other countries.
- Under the terms of the treaty, the parties are prohibited from placing nuclear arms or other weapons of mass destruction in orbit, on the Moon, or on other bodies in space. Nations cannot claim sovereignty over the Moon or other celestial bodies.
- Nations are responsible for their activities in space, are liable for any damage caused by objects launched into space from their territory, and are bound to assist astronauts in distress. Their space installations and vehicles shall be open, on a reciprocal basis, to representatives of other countries, and all parties agree to conduct outer-space activities openly and in accordance with international law.

15. Ans: (A)

Exp:

- Mission Shakti is a joint programme of the Defence Research and Development Organisation (DRDO) and the Indian Space Research Organisation (ISRO).
- As part of the mission, an anti-satellite (A-SAT) weapon was launched and targeted an Indian satellite which had been decommissioned.
- Mission Shakti was carried out from DRDO's testing range in Odisha's Balasore.
- India is only the 4th country to acquire such a specialised and modern capability, and Entire effort is indigenous. Till now, only the US, Russia and China had the capability to hit a live target in space.

16. Ans: (B)

Exp:

- The Australian and Indian Navy have concluded a two-week long bilateral maritime exercise code-named AUSINDEX on 14 Apr 19.
- Personnel from the Eastern Fleet bid farewell to Her Majesty's Australian Ships Canberra, Newcastle, Paramatta and Success with a promise to meet again.
- The current edition of the exercise had the participation of the highest number of units thus far with four frontline ships with integral helicopters, one submarine and a variety of aircraft including P8I and P8A long-range Maritime Reconnaissance Anti-Submarine Warfare aircraft took part from both navies. For the first time, 55 American and 20 New Zealand military personnel embarked onboard the RAN ships and witnessed the exercises during AUSINDEX-19.

17. Ans: (B)

Exp:

- Each year, World Tuberculosis (TB) Day is observed on March 24 to raise public awareness about the devastating health, social and economic consequences of TB, and to step up efforts to end the global TB epidemic.
- The date marks the day in 1882 when Dr Robert Koch announced that he had discovered the bacterium that causes TB, which opened the way towards diagnosing and curing this disease.
- TB remains the world's deadliest infectious killer. Each day, nearly 4500 people lose their lives to TB and close to 30,000 people fall ill with this preventable and curable disease. Global efforts to combat TB have saved an estimated 54 million lives since the year 2000 and reduced the TB mortality rate by 42%.
- The theme of World TB Day 2019 - 'It's time' – puts the accent on the urgency to act on the commitments made by global leaders to:
 - a) scale up access to prevention and treatment;
 - b) build accountability;
 - c) ensure sufficient and sustainable financing including for research;
 - d) promote an end to stigma and discrimination, and
 - e) Promote an equitable, rights-based and people-centred TB response.
- The World Health Organization (WHO) has launched a joint initiative "Find. Treat. All. #EndTB" with the Global Fund and Stop TB Partnership, with the aim of accelerating the TB response and ensuring access to care, in line with WHO's overall drive towards Universal Health Coverage.

18. Ans: (C)

Exp:

- Italy became the first Group of 7 countries to join China's expansive Belt and Road Initiative, drawing concern from the U.S. and European allies.
- Chinese President Xi Jinping's visit to Rome saw a total of 29 deals signed, altogether worth \$2.8 billion.

19. Ans: (A)

Exp:

- World Water Day is held annually on 22 March as a means of focusing attention on the importance of freshwater and advocating for the sustainable management of freshwater resources.
- This Day is an opportunity to learn more about water related issues, be inspired to tell others and take action to make a difference.

- Water is an essential building block of life. It is more than just essential to quench thirst or protect health; water is vital for creating jobs and supporting economic, social, and human development.
- A new World Water Development Report is released each year on or near World Water Day, to provide decision-makers with tools to formulate and implement sustainable water policies. This report is coordinated by UNESCO's World Water Development Programme (WWAP) on behalf of UN-Water.
- UNESCO also contributes to the observance of World Water Day within the activities of its International Hydrological Programme (IHP), which works all year long to build the scientific knowledge base to help countries manage their water resources in a sustainable way.
- The United Nations General Assembly adopted resolution A/RES/47/193 of 22 December 1992 by which 22 March of each year was declared World Day for Water, to be observed starting in 1993, in conformity with the recommendations of the United Nations Conference on Environment and Development (UNCED).

20. Ans: (C)

Exp:

- Spice Jet has joined the International Air Transport Association (IATA).
- The membership allows the airline to explore and grow its collaborations with international member airlines of IATA through interlining and code shares, enabling Spice Jet to seamlessly expand the network options for its passengers in future.
- The airline is the first Indian low-cost carrier to join the trade association representing more than 290 airlines.

21. Ans: (A)

Exp:

- The World Happiness Report is a landmark survey of the state of global happiness that ranks 156 countries by how happy their citizens perceive themselves to be.
- This year's World Happiness Report focuses on happiness and the community: how happiness has evolved over the past dozen years, with a focus on the technologies, social norms, conflicts and government policies that have driven those changes.
- This is the 7th World Happiness Report. The first was released in April 2012 in support of a UN High level meeting on "Wellbeing and Happiness: Defining a New Economic Paradigm".

22. Ans: (C)

Exp:

- Parrotfishes are a group of marine species found in relatively shallow tropical and subtropical oceans around the world.
- With about 95 species, this group displays its largest species richness in the Indo-Pacific.
- They are found in coral reefs, rocky coasts, and seagrass beds, and can play a significant role in bio erosion,

23. Ans: (C)

Exp:

- Karen Keskulla Uhlenbeck has been awarded the Abel Prize 2019 for her pioneering work in geometry, analysis, mathematical physics and more.
- The Abel Prize is awarded every year for outstanding scientific work in mathematics. Uhlenbeck is the first woman to receive it in its 16-year history.

24. Ans: (A)

Exp:

- The Lokpal is the first institution of its kind in independent India, established under the Lokpal and Lokayuktas Act, 2013 to inquire and investigate into allegations of the corruption against public functionaries who fall within the scope and ambit of the above Act.
- The Government appointed Justice Shri Pinaki Chandra Ghose, as the first Chairperson of the Lokpal who was administered oath on 23rd March, 2019 by the President of India.
- The Government has also appointed four Judicial and four non-Judicial Members.
- The process of notifying the rules and regulations including the format for receiving complaints is being developed.
- All complaints which were received till 16th April, 2019 have been examined by the Office of Lokpal and disposed accordingly. The Complaints received thereafter are under examination

25. Ans: (D)

Exp:

Part XV of the Indian Constitution Article 324 to 329 deals with ECI

Articles related to Elections	
324	Superintendence, direction and control of elections to be vested in an Election Commission.
325	No person to be ineligible for inclusion in, or to claim to be included in a special, electoral roll on grounds of religion, race, caste or sex.
326	Elections to the House of the People and to the Legislative Assemblies of States to be on the basis of adult suffrage.
327	Power of Parliament to make provision with respect to elections to Legislatures.
328	Power of Legislature of a State to make provision with respect to elections to such Legislature.
329	Bar to interference by courts in electoral matters.

26. Ans: (A)

Exp:

The Tashigang polling station in Himachal Pradesh falls in Buddhist-dominated Lahaul-Spiti, one of the 17 assembly segments that form the Mandi Lok Sabha seat , the second largest constituency in India.



27. Ans: (B)

Exp:

- Kazakhstan renames capital Astana after ex-president Nursultan Nazarbayev to honour outgoing leader.
- The change was announced after Kassym-Jomart Tokayev was sworn in as president, promising to seek his predecessor's opinion on key decisions.
- Mr Nazarbayev, 78, served nearly 30 years as leader of the oil-rich nation.

28. Ans: (C)

Exp:

- Operation Sunrise is a strategy which is aimed at hitting militant groups that are impacting both India and Myanmar.
- It was carried out by the armies of India and Myanmar.
- In the operation, Other than NSCN (K), the groups hit were Kamtapur Liberation Organisation (KLO), the the United Liberation Front of Assam, and the National Democratic Front of Boroland (NDFB).

29. Ans: (B)

Exp:

- All the options comes under single use plastic
- Single-use plastics, or disposable plastics, are used only once before they are thrown away or recycled.
- These items are things like plastic bags, straws, coffee stirrers, soda and water bottles and most food packaging.
- We produce roughly 300 million tons of plastic each year and half of it is disposable! World-wide only 10-13% of plastic items are recycled.
- The nature of petroleum based disposable plastic makes it difficult to recycle and they have to add new virgin materials and chemicals to it to do so.
- Petroleum based plastic is not biodegradable and usually goes into a landfill where it is buried or it gets into the water and finds its way into the ocean.

30. Ans: (D)

Exp:

- 2019 has completed 100 years of Indian Historical events; they are
 - a) Government of India Act, 1919
 - b) Rowlatt Act
 - c) Jallianwala Bagh tragedy