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# **PRE-Mix**

*(Compilations of the Multiple Choice Questions)*

*For the Month*

*Of*

# October

# 2020

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# 1. Geography

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1. Which of the following statements with respect to Kaveri River are correct?

1. It flows through the states of Karnataka and Telangana.
  2. It is the basis for the Ranganthittu Bird Sanctuary.
  3. The Stanley water reservoir has been built over it
  4. The water of the river is shared between Karnataka, Kerala, Puducherry and Tamil Nadu.
- A. 1 and 2 only  
B. 1, 2 and 3 only  
C. 2, 3 and 4 only  
D. 1, 2, 3 and 4

**Answer: C**

2. Identify the correct statements regarding coral reefs?

1. Corals are in fact animals, not plants.
  2. Coral reefs are the largest structures on earth of biological origin.
  3. Coral reefs are naturally colorful because of algae, which lives inside of the coral, providing them with food.
  4. The three main types of coral reefs are fringing reefs, barrier reefs, and coral atolls.
- A. 1,2 and 3 only  
B. 1,3 and 4 only  
C. 2,3 and 4 only  
D. 1,2,3 and 4

**Answer: D**

3. Which of the following statements regarding Atal tunnel are correct?

1. It is built by the Border Roads Organisation (BRO) and is the longest high-altitude highway tunnel in the world.
2. The Atal Tunnel will have all-weather connectivity between Manali to Lahaul-Spiti valley which was earlier cut off for six months of the year due to excessive snowfall in the region

3. It is built under the Lipu lekh pass in the eastern Pir Panjal range of the Himalayas.

4. The Moravian Mission was the basis for Atal tunnel.

- A. 1, 2, 3, 4
- B. 2, 3, 4 only
- C. 1, 3, 4 only
- D. 1, 2, 4 only

**Answer: D**

4. Which of the following passes are matched correctly with the states they are in?

- 1. Jelep la - Sikkim
- 2. Bara lacha-la - Uttarakhand.
- 3. Bum la- Himachal pradesh
- 4. Mana pass - Arunachal Pradesh

Choose the correct code.

- A. 1 only
- B. 1, 2 and 3
- C. 1, 2, 3, 4
- D. 2, 3, 4

**Answer: A**

5. Match the rivers and the dams built on them.

- |                   |             |
|-------------------|-------------|
| 1. Hirakund       | a. Tapi     |
| 2. Bhakhra nangal | b. Indus    |
| 3. Nimoo bazgo    | c. Mahanadi |
| 4. Ukai           | d. Sutlej   |

Select the correct code

- A. 1-c, 2-d, 3-b, 4-a
- B. 1-b, 2-d, 3-c, 4-a
- C. 1-c, 2-a, 3-b, 4-d
- D. 1-b, 2-a, 3-c, 4-d

**Answer: A**

6. Noumea Accord recently heard in news is related to which of the following?

- A. It is the first Arab-Israeli peace deal.

- B. French Republic's deal to grant increased political power to New Caledonia.
- C. The National Aeronautics and Space Administration (NASA) announced a global set of principles for space exploration.
- D. Ending the Waziristan war.

**Answer: B**

**Explanation**



**7. Global hunger index is released by**

- A. The world food program
- B. Food and agriculture organization
- C. Welhunger Life and Concern Worldwide
- D. UN System Standing Committee on Nutrition

**Answer: C**

**Explanation**

- The Global hunger index was launched on October 16 2020. It has been jointly prepared by Welhunger life and Concern Worldwide.
- This year, India has been ranked 94th Out of 107 countries. In 2018 was India ranked 103 while in 2019 India was ranked 102.
- The report ranked the countries on the basis of four indicators - undernourishment, child wasting, child stunting and child mortality.
- The report has put India under "serious category" and has given the score of 27.2.
- The child stunting rate, for age group 0-5 years, in India was reported as 37.4 %.
- Wasting in child was reported as 17.3 %. Undernourishment rate of India is 14%. As per the report, child mortality rate is 3.7 %.
- Nepal has been ranked 73rd, Bangladesh has been ranked 75th while Pakistan has been ranked 88th this year.

**8. Which of the following are true about Indo – Srilankan accord?**

1. It sought to collectively address all the three contentious issues between India and Sri Lanka: strategic interests, people of Indian origin in Sri Lanka and Tamil minority rights in Sri Lanka.

2. This accord saw the induction of the Indian Peace Keeping Force (IPKF) in Sri Lanka.
3. According to the terms of the accord, Sri Lankan forces would withdraw from the north and the Tamil rebels would disarm.
4. The accord was expected to resolve the Sri Lankan Civil War by enabling the thirteenth Amendment to the Constitution of Sri Lanka and the Provincial Councils Act of 1987.

Select the correct code

- A. 1,2 and 3 only
- B. 1, 3 and 4 only
- C. 2 3 and 4 only
- D. 1,2, 3 and 4

**Answer: D**

9. MACS-6478 recently seen in news is

- A. A newly tested missile from the k- family series
- B. A new discovered satellite of Pluto.
- C. A new genome coding sequence for deadly viruses.
- D. A new wheat variety

**Answer: D**

10. Which of the following statements are correct?

1. The Jhelum River rises from the Sheshnag Lake near Verinag at the foot of Pir Panjal range.
2. The Jhelum River is the largest tributary of Indus.
3. Beas rises from Bara-lacha la pass

Select the correct code

- A. 1 only
- B. 2 only
- C. 1 and 2 only
- D. 2 and 3 only

**Answer: A**

11. On the basis of the statements given below, identify the pass?

1. It is a boundary pass between Tibet's Cona county and India's Tawang district in Arunachal Pradesh.
2. Recently a war memorial has been inaugurated at this pass.

Select the correct option

- A. Marpo la
- B. Zelep la
- C. Bum la
- D. Hpungan pass

**Answer: C**

**Explanation**



**12. Which of the following statements regarding e-Dharti geo portal are correct?**

- 1. It was launched by Ministry of Earth sciences.
- 2. The portal will make the maps and lease plans geographic information system (GIS)-enabled.

**Select the correct code.**

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

**Answer: B**

**13. Which of the following statement (s) is/ are correct regarding 'Caspian Sea'?**

- 1. It lies to the west of the Caucasus Mountains.
- 2. It is located between Europe and Asia.
- 3. The Caspian Sea is the largest inland body of water

**Select the correct code using the statements given above.**

- A. 1 only

- B. 1 and 2
- C. 2 and 3
- D. 2 Only

**Answer: C**

**Explanation**



**14. Which Indian states/UTs share border with Pakistan?**

1. Himachal Pradesh
2. Haryana
3. Jammu and Kashmir
4. Gujarat
5. Punjab

**Select the correct answer using the codes given**

- A. 1, 2 and 5
- B. 1 and 2
- C. 1, 2 and 5
- D. 3, 4 and 5

**Answer: D**

**Explanation**

**15. The lighter silicates, SIAL i.e. SILICA + ALUMINIUM are abundant in?**

- A. Core
- B. Mantle
- C. Ocean floor
- D. Earth's Crust

**Answer: D**



## 2. History & Culture

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1. Which of the following are correct about “The Indian Tourism Statistics”?

1. It was released by Ministry of Tourism.
2. According to the report Himachal Pradesh attracted the highest number of domestic tourists in the country.

Select the correct code.

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

**Answer: A**

2. What is Oaxaca, recently heard in news?

- A. An indigenous cow of South Africa.
- B. A tribe from Amazon forest.
- C. A khadi collective.
- D. Geoglyph recently discovered in Marree.

**Answer: C**

3. Identify the fort based on the following statements?

1. It was originally known as Mankal, and built on a hilltop in the year 1143.
2. It was fortified between 14th and 17th centuries by the Bahmani Sultans and then by the Qutub Shahi dynasty.
3. The National Monuments Authority (NMA) is developing 54 row houses in the regulated zone of the 500-year-old Fort in the caveat that colour scheme should match with that of the monuments.

Select the correct code

- A. Golconda Fort
- B. Badami Fort
- C. Warangal Fort
- D. Anjengo Fort

**Answer: A**

4. Which of the following statements are incorrect regarding PAKUR?

1. Pakur is dried medicinal root found in tribal areas.
2. It is gathered by Santhal Tribals and Vulnerable Pahadhiya tribes from Pakur, Jharkhand

Select the correct code

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

**Answer: A**

5. The Trade Disputes Act of 1929 provided for?

- A. The participation of workers in the management of industries.
- B. Arbitrary powers to the management to quell industrial disputes.
- C. An intervention by the British Court in the event of a trade dispute.
- D. A system of tribunal and ban on strikes.

**Answer: D**

### 3. Polity & Governance

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- [Video 3](#)

1. Which of the following have been matched correctly?

1. Sarkaria Commission - Centre-State relations.
  2. P.C. Hotha Committee - Restructuring of Civil Services
  3. Swaminathan Committee - Civil Services Examination.
  4. Wanchoo Committee - Recommendations on Integrated wages, Income and Price Policy
- A. 1 and 2 only  
B. 2 and 3 only  
C. 1 and 4 only  
D. 1 and 4 only

**Answer: A**

2. 1985 Coomar Narain case is related to which of the following?

- A. The SC tried to curb the blatant misuse of Article 356 (regarding the imposition of President's Rule on states).
- B. The SC restored the conviction and sentence of 6-year (RI) rigorous imprisonment imposed on 2 UK nationals who were acquitted by the Bombay High Court in a pedophilia case. The court said that "the sexual abuse of children is one of the most heinous crimes."
- C. One of the oldest and longest criminal trials involving Official Secrets Act.
- D. The SC ruled that the power of judicial review vested in the Supreme Court and High Courts by Articles 32 and 226 respectively is a part of the basic structure of the Constitution.

**Answer: C**

3. Which state became the first digital state in public education?

- A. Kerala
- B. Sikkim
- C. Goa
- D. Himachal Pradesh

**Answer: A**

4. Who among the following was the first chairman of the National Commission for Women?

- A. Mohini Giri
- B. Dr. Poornima Advani
- C. Dr. Girija Vyas
- D. Jayanti Patnaik

**Answer: D**

5. Which of the following statements are true about the governor of a state?

- 1. The executive power of the state is vested in him.
- 2. He must have attained the age of 35 years.
- 3. He holds the office during the pleasure of the president.
- 4. The grounds for his removal are laid down in the constitution.

- A. 1, 2 and 4
- B. 1, 2 and 3
- C. 1, 3 and 4
- D. 1, 2, 3, 4

**Answer: B**

6. Which of the following statements regarding 6th schedule of the constitution are correct?

- 1. Passed by the Constituent Assembly in 1949, it seeks to safeguard the rights of the tribal population through the formation of Autonomous District Councils (ADC).
- 2. The Sixth Schedule consists of provisions for the administration of schedule areas in Assam, Meghalaya, Tripura and Mizoram.
- 3. It comes under Article 244 of the Constitution.
- 4. The ADCs in these areas are empowered with civil and judicial powers can constitute village courts within their jurisdiction to hear the trial of cases involving the tribes.

- A. 1, 2, 3 and 4
- B. 1, 2 and 3 only
- C. 1, 3 and 4 only
- D. 2, 3 and 4 only

**Answer: C**

7. Which of the following have been awarded the Nobel peace prize for 2020?

- A. World Food Programme (WFP)
- B. International Campaign to Abolish Nuclear Weapons (ICAN)

- C. Organisation for the Prohibition of Chemical Weapons (OPCW)
- D. Intergovernmental Panel on Climate Change (IPCC)

**Answer: A**

**8. Which of the following statements in context of The Financial Action Task Force (FATF) are incorrect?**

1. The Financial Action Task Force (FATF) is an inter-governmental body established in 1989 on the initiative of the G7.
2. The FATF Secretariat is housed at the OECD headquarters in Paris.

**Select the correct code**

- A. 1 only
- B. 2 only
- C. 1 and 2 only
- D. None of the above

**Answer: D**

**9. Which of the following statements regarding SVAMITVA scheme are correct?**

1. It refers to Survey of Villages and Mapping with Improvised Technology in Village Areas.
2. It will enable nearly one lakh property holders to download their property cards through SMS on their mobile phones and pave the way for villagers to use property as a financial asset for taking loans and other financial benefits.
3. The physical distribution of property cards will be done under the scheme.
4. It is a central scheme of the Ministry of Electronics and Information Technology.

**Select the correct code**

- A. 1, 2, 3 and 4
- B. 2, 3 and 4 only
- C. 1, 2 and 3 only
- D. 1, 2 and 4 only

**Answer: C**

**10. The authorization for the withdrawal of funds from the- Consolidated Fund of India must come from?**

- A. The President of India
- B. The Parliament of India
- C. The Prime Minister of India
- D. The Union Finance, Minister

**Answer: B**

**11. Which of the following statements are correct about Kisan Suryodaya Yojna?**

1. Under the scheme, 16 hours of power supply shall be provided to farmers.
2. It was launched for the farmers of BIHAR.

**Select the correct code**

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

**Answer: A**

**12. Which of the following statements are correct regarding amended Jammu and Kashmir Panchayati Raj Act, 1989?**

1. It provided the setting up of District Development Councils (DDC).
2. It was brought in by the Ministry of Parliamentary Affairs.
3. The term of the DDC will be five years.
4. The member of DDC will be appointed by the center.

**Select the correct code.**

- A. 1 and 2 only
- B. 2 and 3 only
- C. 1 and 3 only
- D. 2 and 4 only

**Answer: C**

**13. Which of the following statements are correct about The National Company Law Appellate Tribunal (NCLAT)?**

1. It was constituted under Companies Act, 2013.
2. The President of the Tribunal shall be appointed after consultation with the Chief Justice of India.
3. Term of office of chairperson and members is 5 years and they can be reappointed for additional 5 years.
4. It hears appeals against the orders of The Competition Commission of India (CCI).

**Select the correct code**

- A. 1, 2 and 3
- B. 2, 3 and 4

C. 1, 3 and 4

D. 1, 2, 3 and 4

**Answer: D**

**14. Which of the judgment pairs have been matched correctly?**

1. Minerva mills case: Basic structure doctrine
2. L Chandra Kumar: Rights of backward classes
3. I.R. Coelho: 9th schedule of the constitution
4. Lily Thomas: Related to Hindu Marriage Act

**Select the correct code**

A. 1, 2 and 3

B. 2, 3 and 4

C. 1, 3 and 4

D. 1, 2, 3 and 4

**Answer: C**

**15. Which of the following statements are incorrect in regard with Anemia Mukht Bharat Index?**

1. It is an initiative of the Ministry of Health and Family Welfare and UNICEF.
2. Rajasthan has the best Anemia Mukht Bharat (AMB) Index among 29 states in the country.

**Select the correct code**

A. 1 only

B. 2 only

C. Both 1 and 2

D. Neither 1 nor 2

**Answer: B**

## 4. International Relations

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1. Which of the following countries are parts of QUAD grouping?

1. Russia
2. India
3. USA
4. Japan

Select the correct answer using the codes given below

- A. 1, 2 and 3
- B. 2, 3 and 4
- C. 1, 2 and 4
- D. 1, 2, 3 and 4

**Answer: B**

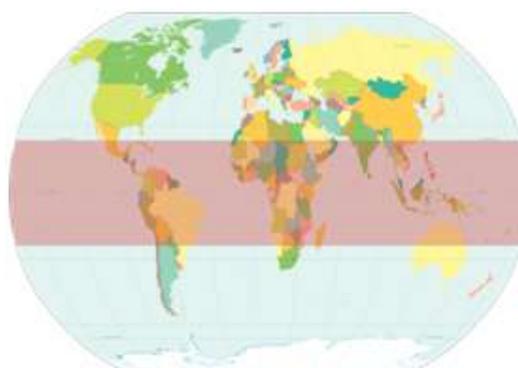
2. Consider the following statements

1. The International Solar Alliance was launched at the United Nations Climate Change Conference in 2015.
2. The International Solar Alliance is a group of nations that lies within Tropic of Cancer and Tropic of Capricorn.

Which of the given above statement (s) is/ are correct?

- A. 1 Only
- B. 2 Only
- C. Both 1 and 2
- D. Neither 1 nor 2

**Answer: C**



**Explanation**

3. RAISE 2020 summit which was in news is related to,

- A. Renewable Energy
- B. Sustainable Development
- C. Artificial Intelligence
- D. Rural Development

**Answer: C**

4. Consider the following statements with respect to Shanghai Cooperation Organization.

- 1. India and Pakistan signed the memorandum of obligations in June 2016, thereby starting the formal process of joining the SCO as full members.
- 2. With an aim to share literature works with SCO nations, the Sahitya Akademi will translate 10 Indian literature works into Chinese language only.

Which of the above statements is/are correct?

- A. 1 only
- B. 2 only
- C. Both 1 and 2.
- D. None of the above

**Answer: A**

5. Consider the following statements with respect to United Nations.

- 1. There are 5 main organs of the UN and the Trusteeship Council is one of them.
- 2. The year 2020 marks the 75th anniversary of the United Nations.
- 3. The United Nations is headquartered in Washington, D.C.

Which of the above statements is/are correct?

- A. 1 only
- B. 2 only
- C. 3 only
- D. None of the above

**Answer: B**

## 5. Economy

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1. Which of the following is/are correct in context of Consumer Price Index for Industrial Workers (CPI-IW)?

1. CPI-IW is managed by the Labour Bureau of the Labour Ministry while CPI- Agricultural Workers (CPI-AL) and CPI-Rural workers (CPI RL) are compiled by Central Statistical Organisation.
2. CPI-IW is used to determine Dearness Allowance (DA) of serving government officers and employees and not that of the retired officers and employees.

- A. 1 only  
B. 2 only  
C. Both are correct  
D. None is correct

**Answer: D**

### Explanation

Both the statements are correct

- There is a proposal to change Consumer Price Index for Industrial Workers (CPI-IW) to 2016 from 2001.
- It could mean further increase in Dearness Allowance (DA)/Dearness Relief (DR), when revised from next year.
- Yearly inflation as represented by All India CPI-IW is key for calculating DA and DR.
- DA as a percentage of basic pay is paid to serving government officers and employees, while DR as a percentage of basic pensions is for the retired officers and employees.
- CPI-IW is managed by the labour bureau of the Labour Ministry along with CPI- Agricultural Workers (CPI-AL) and CPI-Rural workers (CPI RL).
- However, a more broader retail inflation rate based on Consumer Price Index released by National Statistics Office.

2. Which of the following statements with respect to project STARS are correct?

1. The project will cover all UTs initially and then later on will be implemented in all the states.
2. The project will setup and support the PRAKH, the national assessment center.
3. It is a World Bank aided project.

**4. The project is a flagship program under ministry of MSME.**

- A. 1, 2 and 3 only
- B. 1 and 2 only
- C. 2 and 3 only
- D. 3 and 4 only

**Answer: C**

**Explanation**

Statements 1 and 4 are wrong

- The cabinet has approved Rs 5,718 crores of aid from World Bank to implement project STARS.
- STARS is Strengthening Teaching Learning and Resources for States.
- The project is to be implemented by department of school education and literacy operating under Ministry of Education.
- The project will cover Maharashtra, Himachal Pradesh, Rajasthan, Madhya Pradesh, Odisha and Kerala.
- The focus and components of the project is aligned with national education policy 2020.
- Project will improve overall monitoring of Indian school education system.
- It will shift the focus towards maintaining of outputs by linking the disbursement of funds.
- The STARS project has two major components:
  - ✓ To support the ministry of education by incentivizing States through state incentive grants.
  - ✓ To strengthen Ministry of Education to capture authentic data on transaction, retention and completion rates of students.
- The project supports ministry of education to establish the national assessment centre, PRAKH. The project will also include Contingency Emergency Response Component.
- State level projects under STARS envisage improving learning assessment systems, strengthening early childhood education, and strengthening vocational education, strength in classroom instruction, career guidance and internships.

**3. The Human Cost of Disasters 2000-2019 report is released by which agency?**

- A. UN Department of Humanitarian Affairs
- B. UN Office for Disaster Risk Reduction
- C. All Hands Volunteer
- D. NECHAMA

**Answer: B**

## Explanation

- Released recently by the UN Office for Disaster Risk Reduction.
- Climate change is largely to blame for a near doubling of natural disasters in the past 20 years.
- 7,348 major disaster events had occurred between 2000 and 2019, affecting 4.2 billion people and costing the global economy some \$2.97 trillion.

## About UNISDR

- The United Nations Office for Disaster Risk Reduction (UNDRR), created in December 1999, is the successor to the secretariat of the International Decade for Natural Disaster Reduction.
- It was established to ensure the implementation of the International Strategy for Disaster Reduction, that's why it was earlier known as UNISDR.
- It is also overseeing The Sendai Framework for Disaster Risk Reduction 2015-2030, which is the successor instrument to the Hyogo Framework for Action (HFA) 2005-2015.

### 4. Which of the following statements wrt Long term repo operation (LTRO) is/are incorrect?

1. It refers to the rate at which commercial banks borrow money from the RBI in case of shortage of funds.
  2. It helps in reducing the liquidity in the banking system.
  3. Funds through LTRO are provided at the repo rate.
  4. LTROs are conducted on Core Banking Solution (E-KUBER) platform
- A. 2 and 4 only  
B. 1 and 3  
C. 1 and 2 only  
D. All of the above

**Answer: C**

## Explanation

- Long Term Reverse Repo Operation (LTRO) is a mechanism to facilitate the transmission of monetary policy actions and the flow of credit to the economy.
- This helps in injecting liquidity in the banking system.
- Funds through LTRO are provided at the repo rate. This means that banks can avail one year and three-year loans at the same interest rate of one day repo.
- Otherwise usually, loans with higher maturity period (here like 1 year and 3 years) will have a higher interest rate compared to short term (repo) loans.
- LTROs are conducted on Core Banking Solution (E-KUBER) platform.
- The minimum bid amount is Rs 1 crore and multiples thereof.
- There is no restriction on the maximum amount of bidding by individual bidders.

5. Recently the Nobel Memorial Prize in Economic Sciences has been awarded to Paul R. Milgrom and Robert B. Wilson for improvements to auction theory and inventions of new auction formats. In this context, which of the following statements is/are correct?

1. In the common-value model, the actual value is the same for everyone, but bidders have different private information ("signals") about what that value actually is.
  2. In private-values model, each bidder knows how much he values the object for sale but his value is private information.
- A. 1 only  
B. 2 only  
C. Both are Correct  
D. None is Correct

**Answer: C**

### **Explanation**

- In the common-value model, the actual value is the same for everyone, but bidders have different private information ("signals") about what that value actually is. In this case a bidder would change her estimate of the value if she learned another bidder's signal.
- In contrast, in private-values model, each bidder knows how much he values the object for sale but his value is private information. In contrast to the common-value setting, a bidder's value would be unaffected by learning any other bidder's information.
- Wilson developed a theory for auction of objects of "common value", a value that is "uncertain to begin with but is eventually the same for everyone", such as radio frequency.
- He shows why rational bidders place their bids below their best estimate of common value – they are afraid of the winners' curse, of paying too much and losing out.
- Milgrom generalises the auction theory to look at "private values" which can vary from bidder to bidder (such as an art auction).
- He concludes that sellers realise higher revenue "when bidders learn more about each other's estimated values during bidding".
- With auctions being used to sell "complex objects" such as landing slots, shares and radio frequency, sophistication in auction design has become an imperative.

6. Often in news, Grey List, is:

1. Released by IMF.
  2. Officially referred to as Jurisdictions under Increased Monitoring.
  3. At present Pakistan is the only country in Grey List.
  4. Countries on the list may still face economic sanctions from institutions like the IMF and the World Bank and experience adverse effects on trade.
- A. 1 and 2 only

- B. 3 and 4 only
- C. 2 and 4 only
- D. 1 and 3 only

**Answer: C**

### Explanation

- Released by FATF, an inter-governmental body established in 1989 on the initiative of the G7.
- Black List: Countries known as Non-Cooperative Countries or Territories (NCCTs) are put in the blacklist. These countries support terror funding and money laundering activities. The FATF revises the blacklist regularly, adding or deleting entries.
- Grey List: Countries that are considered safe haven for supporting terror funding and money laundering are put in the FATF grey list. This inclusion serves as a warning to the country that it may enter the blacklist.
- As of August 2020, there are 18 nations on this list including Pakistan.
- Countries on the FATF grey list represent a much higher risk of money laundering and terrorism financing but have formally committed to working with the FATF to develop action plans that will address their AML/CFT deficiencies.
- While grey-list classification is not as negative as the blacklist, countries on the list may still face economic sanctions from institutions like the IMF and the World Bank and experience adverse effects on trade.
- In news: FATF is all set to decide on Pakistan's grey list status in a virtual meeting soon.

### 7. Which of the following statements are incorrect regarding Additional Tier- 1 bonds?

1. These bonds have no maturity date.
  2. The issuing bank has the option to call back the bonds or repay the principal after a specified period of time.
- A. 1 only
  - B. 2 only
  - C. Both 1 and 2
  - D. Neither 1 nor 2

**Answer: D**

### Explanation

Both the Statements are correct

- In news: SEBI has tightened its regulations of AT-1 bonds and ensured that these risky instruments are less accessible to retail investors.
- AT-1 bonds are a type of unsecured, perpetual bonds that banks issue to shore up their core capital base to meet the Basel-III norms.

- These have higher rates than tier II bonds.
- These bonds have no maturity date.
- The issuing bank has the option to call back the bonds or repay the principal after a specified period of time.
- The attraction for investors is higher yield than secured bonds issued by the same entity.
- Individual investors too can hold these bonds, but mostly high net worth individuals (HNIs) opt for such higher risk, higher yield investments.
- Given the higher risk, the rating for these bonds is one to four notches lower than the secured bond series of the same bank.
- Banks can now issue these bonds only on electronic platform.
- Only institutional investors could subscribe to them.
- There shall be a minimum allotment size and trading lot size of ₹1 crore.

**8. Which of the following is not amongst the Eight Core Industries?**

- A. Electricity
- B. Pharmaceutical
- C. Cement
- D. Natural Gas

**Answer: B**

Explanation

- The eight core industries include:
  - ✓ Coal
  - ✓ Crude oil
  - ✓ Natural gas
  - ✓ Refinery products
  - ✓ Fertilizers
  - ✓ Steel
  - ✓ Cement
  - ✓ Electricity.
- These are called core industries because of their likely impact on general economic activity as well as other industrial activity.

**9. Consider the following actions which the Government can take:**

1. Devaluing the domestic currency.

2. Reduction in the export subsidy.
3. Adopting suitable policies which attract greater FDI and more funds from FII's.

Which of the above action/actions can help in reducing the current account deficit?

- A. 1 and 2
- B. 2 and 3
- C. 3 only
- D. 1 and 3

**Answer: A**

**Explanation**

- Option 3 will impact the long term thing, not Current Account.
- The current account measures the flow of goods, services, and investments into and out of the country.
- It represents a country's foreign transactions and, like the capital account, is a component of a country's Balance of Payments (BOP).
- There is a deficit in Current Account if the value of the goods and services imported exceeds the value of those exported.
- A nation's current account maintains a record of the country's transactions with other nations that includes net income, including interest and dividends, and transfers, like foreign aid. It comprises of following components:
- Trade of goods, Services, and Net earnings on overseas investments and net transfer of payments over a period of time, such as remittances.

10. Which of the following statements is/are correct in context of Import Substitution Industrialisation (ISI)?

1. It is a trade and economic policy that advocates encouraging foreign imports to maximise production of industrialised goods.
  2. In order to spur domestic production, the domestic government usually follows the path of subsidization of vital industries.
- A. 1 only
  - B. 2 only
  - C. Both are Correct
  - D. None is Correct

**Answer: B**

**Explanation**

- Statement 1 is incorrect as Import substitution industrialization (ISI) as a trade and economic policy advocates replacing foreign imports with domestic production.

- It is based on the premise that a country should attempt to reduce its foreign dependency through the local production of industrialized products.
- It has been enacted by various developing countries with the intention of producing development and self-sufficiency by the creation of an internal market.
- The state leads economic development by nationalization, subsidization of vital industries (agriculture, power generation, etc.), increased taxation, and highly-protectionist trade policies.
- Most developing countries abandoned it in the 1980s and after the fall of the Soviet Union.
- While market economists are divided on import-substitution policies, the success of the East Asian economies, particularly Taiwan and China, presents a viable case for the strategic use of Import-Substitution Industrialisation (ISI) policies, but only when applied alongside Export-oriented Industrialisation (EOI).
- India had comprehensive import-substitution policies in place between 1947 and 1990 as well. But, in the absence of the strategic identification of sectors for implementing the ISI policy and a concomitant fillip to exports, they proved to be disastrous.
- If they are successful this time, India must learn from its own past and its peers. Only a limited and targeted import-substitution policy combined with aggressive export promotion can make Atmanirbhar Bharat a \$5-trillion economy.

**11. Which of the following statements are correct regarding India's first seaplane project?**

- 1. It will connect Sabarmati Riverfront in Ahmedabad to the Statue of Unity in Kevadia.**
  - 2. The water aerodrome is not a listed project/activity in the Schedule to the Environmental Impact Assessment Notification, 2006 and its amendments.**
- A. 1 only  
B. 2 only  
C. Both 1 and 2  
D. Neither 1 nor 2

**Answer: C**

**Explanation**

- India's first seaplane service in Gujarat is set to begin from 31 October, the anniversary of Sardar Vallabhbhai Patel.
- It will connect Sabarmati Riverfront in Ahmedabad to the Statue of Unity in Kevadia.
- The service will be operated by Spice jet Airlines.
- Unlike a conventional aircraft, a seaplane can land both on a water body and on land, thereby opening up more opportunities for business and tourism.
- Such projects provide faster and hassle free travel option for the long, treacherous and hilly regions of the country.

- The water aerodrome is not a listed project/activity in the Schedule to the Environmental Impact Assessment Notification, 2006 and its amendments.
- However, the Expert Appraisal Committee was of the opinion that the activities proposed under the water aerodrome project may have a similar type of impact as that of an airport.
- In Narmada, the Shoolpaneshwar Wildlife Sanctuary is located at an approximate aerial distance of 2.1 km from the proposed project site.
- Inland Waterways Authority of India (IWAI) will manage the Project of Seaplane in Inland Waterways and Sagarmala Development Company Limited (SDCL) will manage the Projects of seaplane in Coastal Areas.

**12. Based on the following statements identify the type of bond?**

1. It is a promise to be liable for the debt, default, or failure of another.
2. It is a three-party contract by which one party guarantees the performance or obligations of a second party to a third party.
3. They provide financial guarantee that the contract will be completed according to pre-defined and mutual terms.

- A. General Obligation Bonds
- B. Surety Bonds
- C. Revenue Bonds
- D. Conduit Bonds

**Answer: B**

**Explanation**

- A surety is a person or party that takes responsibility for the debt, default or other financial responsibilities of another party.
- A surety is often used in contracts where one party's financial holdings or well-being are in question and the other party wants a guarantor.
- Surety bonds are financial instruments that tie the principal, the obligee—often a government entity—and the surety.
- In the case of surety bonds, the surety is providing a line of credit to the principal so as to reassure the obligee that the principal will fulfill their side of the agreement.
- Big construction and infrastructure projects may soon witness the concept of surety bond as an option and alternate to bank guarantees. A Working Group of insurance regulator Irdai has already recommended issuance of surety bonds by insurance companies which will function as the performance or delivery obligation to complete an insured project.
- The performance bonds issued may cover up to 10-20 per cent or sometimes guarantee 100 per cent of the project value.
- Surety bonds are typically conditional, while bank guarantees are on demand, and are offered as insurance products in the global market.

- In the wake of rising NPAs and banks' reluctance to give bank guarantees, The National Highways Authority of India (NHAI) received representations from contractors and developers as obtaining bank guarantees were becoming very difficult.

**13. Which of the following statements is/are correct about the new Consumer Price Index (Industrial Workers) CPI-IW?**

1. In the new series, the Geometric mean based methodology is used for compilation of indices as against Arithmetic mean used earlier.
2. The new base year for CPI-IW is 2018.

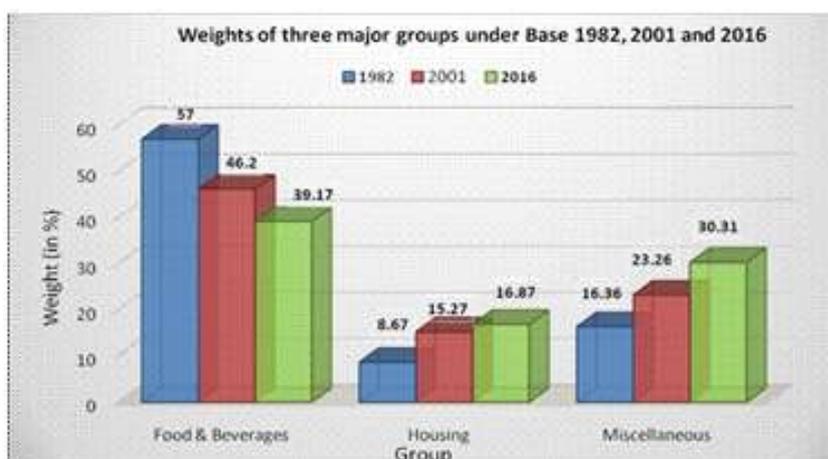
- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

**Answer: A**

**Explanation**

(The new base year for CPI-IW is 2016).

- The labour ministry has recently revised the base year for consumer price index for industrial workers (CPI-IW) to 2016 from 2001.
- The retail inflation measured in terms of CPI-IW is the single most important price statistics with financial implications.
- The CPI-IW is primarily used to regulate the dearness allowance of government employees and the workers in the industrial sectors.
- It is also used in the fixation and revision of minimum wages in scheduled employments besides measuring the inflation in retail prices.
- It is estimated that the move will lead to "depression" in dearness allowance (DA) paid to workers.
- In the new series, as per the direction of Technical Advisory Committee (TAC) on Statistics of Prices and Cost of Living (SPCL), the Geometric mean based methodology (GM of Price Relatives) is used for compilation of indices as against Arithmetic mean used in 2001 series.



**14. BANDICOOT recently heard in news are?**

- A. A new variety of coffee introduced in Coorg.
- B. New surface to air missile radar, developed by DRDO.
- C. A new types of robots.
- D. A new wheat variety, also called high yielding aestivum.

**Answer: C**

**Explanation**

- The automatic sewer cleaning robot has been procured by the Greater Mohali Area Development Authority.
- The BANDICOOT robot is also the first of its kind in the world that was developed by a Start-up India company called Genrobotics under the Make in India initiative, funded by CSR of Indian Oil Corporation Limited (IOCL).
- The robot would be a big relief for sanitation workers in the Covid times as it ensures zero physical contact with the sewage and helps workers stay away from the virus.

**15. World Employment and Social Outlook is launched by?**

- A. United Nations Conference on Trade and Development
- B. World Bank Group
- C. International Labor Organization
- D. International Monetary Fund

**Answer: C**

**Explanation**

- The WESO report is an initiative of the International Labour Organization (ILO).
- ILO forecasts that unemployment will rise by about 2.5 million this year.
- The ILO is a UN agency whose mandate is to advance social justice and promote decent work by setting international labour standards.
- The report analyses key labour market issues, including unemployment, labour underutilization, working poverty, income inequality, labour income share and factors that exclude people from decent work.

## 6. Environment & Ecology

To watch the following questions on YouTube, click on the links given below

- [Video 1](#)
- [Video 2](#)
- [Video 3](#)

1. Which of the following statements in context of The World Migratory Day are incorrect?

1. The World Migratory Bird Day is celebrated twice a year.
  2. The campaign is organized by Birdlife International.
  3. Theme for this year is - Protect Birds: Be the Solution to Plastic Pollution.
  4. The idea of celebrating World Migratory Day was designed by the US Fish and Wildlife Service in 1993.
- A. 1 and 2 only  
B. 2 and 3 only  
C. 1 and 3 only  
D. 2, 3 and 4 only

**Answer: B**

### Explanation

- The World Migratory Bird Day is celebrated twice a year, that is, on second Saturdays of May and October. Earlier in May, the day was celebrated on May 9, 2020.
- Both the days are celebrated under the same theme. This year, the day is celebrated under the Theme: Birds Connect Our World.
- The campaign is organised by two international wildlife treaties administered by the United Nations Environment Programme.
- They are as follows:
  - ✓ African-Eurasian Migratory Waterbird Agreement Convention on the conservation of Migratory species of wild animals.
  - ✓ The idea of celebrating World Migratory Day was designed by the US Fish and Wildlife Service in 1993.
  - ✓ The Convention on Conservation of Migratory Species is also called Bonn convention.

2. *Abotelphusa Namdaphaensis* a small freshwater crab species, were recently found in which of the following places?

- A. Western Ghats

- B. Abor hills
- C. Eastern Ghats
- D. The Ganga catchment area

**Answer: B**

**Explanation**

- The name of *AborTelphusa Namdaphaensis*, a small freshwater crab species, is a tribute not just to Namdapha, the largest protected area in the Eastern Himalayan Biodiversity Hotspot, but also to the Abor Hills, another rich biodiversity hotspot in Arunachal Pradesh.
- Namdapha (named a National Park in 1983) is known for its rich biodiversity, and believed to be the rare area that harbours four large cats: tigers, snow leopards, clouded leopards and leopards.

**3. What is “Ganga Avalokan” recently seen in news?**

- A. A Hindu religious book
- B. The GPS based mapping system
- C. Museum
- D. Project for Kumbh 2021 in Haridwar

**Answer: C**

**Explanation**

- It is nation’s first museum on Ganga. It has been dedicated to showcase the biodiversity, rejuvenation and culture in Ganga River.
- The museum is located at Chandi Ghat, Haridwar.

**4. Which of the following pairs have been incorrectly matched?**

1. Palamau – Bihar
  2. Buxa- West Bengal
  3. Sariska- Rajasthan
  4. Pakke- Arunachal Pradesh
- A. 1 only
  - B. 2 only
  - C. 3 and 4 only
  - D. 1,2 3 and 4

**Answer: A**

**5. Which of the following statements in context of “murder hornets” are correct?**

1. They are endemic to North America.

2. They prey on honeybees.
3. They need meat to feed their young.
4. Hornets can sting over and over.

- A. 1, 2, 3 and 4
- B. 1, 2 and 3 only
- C. 2, 3 and 4 only
- D. 1,3 and 4 only

**Answer: C**

**Explanation**

- They're Asian giant hornets, a species (*Vespa mandarinia*) that recently invaded North America. (invasive)
- This wasp earned its nickname from preying on honeybees.
- It can swoop down and grab them out of the air.
- Hornets are big, predatory, colony-forming wasps. They belong to the genus *Vespa*.
- None are native to North or South America.
- Most are native to Asia. They need meat to feed their young.
- That's in contrast to honeybees, which collect plant pollen as protein. Another difference: A honeybee dies after its single-use stinger rips out of its body.
- Hornets can sting over and over.

6. Which of the following statements is correct regarding the sheath blight disease?

1. Sheath blight is a fungal disease caused by *Rhizoctonia solani*.
  2. Sheath blight occurs in areas with low temperature (10–12°C) and low levels of nitrogen fertilizer.
- A. 1 only
  - B. 2 only
  - C. Both 1 and 2
  - D. Neither 1 nor 2

**Answer: A**

**Explanation**

- Sheath blight is a fungal disease caused by *Rhizoctonia solani*.
- Rice sheath blight is an increasing concern for rice production, especially in intensified production systems.

- Infected leaves dry out and die more rapidly, young tillers can also be destroyed. As a result, the leaf area of the canopy can significantly be reduced by the disease. This reduction in leaf area is the primary causes of yield reduction.
- Sheath blight occurs in areas with high temperature (28–32°C), high levels of nitrogen fertilizer, and relative humidity of crop canopy from 85–100%.
- Plants are more vulnerable to sheath blight during the rainy season.
- High seeding rate or close plant spacing, dense canopy, the disease in the soil, sclerotia or infection bodies floating on the water, and growing of high yielding improved varieties also favour disease development.

### 7. Which of the following define Bioremediation?

- A. It is the process of water becoming overly enriched with minerals and nutrients which induce excessive growth of algae.
- B. It is the process by which the nutritional quality of food crops is improved through agronomic practices, conventional plant breeding, or modern biotechnology.
- C. It is the chemical alteration of chemicals such as nutrients, amino acids, toxins, and drugs in the body.
- D. It is a process to clean up oil spills or contaminated groundwater.

**Answer: D**

### Explanation

- Bioremediation is the use of living microorganisms to degrade the environmental contaminants into less toxic forms.
- It uses naturally occurring bacteria and fungi or plants to degrade or detoxify substances hazardous to human health and/or the environment.
- The microorganisms may be indigenous to a contaminated area or they may be isolated from elsewhere and brought to the contaminated site.
- Contaminant compounds are transformed by living organisms through reactions that take place as a part of their metabolic processes.
- Bioremediation can be effective only where environmental conditions permit microbial growth and activity.
- The application often involves the manipulation of environmental parameters to allow microbial growth and degradation to proceed at a faster rate.

### 8. Based on the following statements identify the WLS/NP/TR/ ZP?

1. First zoo in the country to become a member of the World Association of Zoos & Aquariums (WAZA).
2. It is the only zoo for the breeding of the Indian pangolin and white tiger.
3. It was the world's first captive crocodile breeding centre, where gharials were bred in captivity in 1980.

**4. Recently it revived its 'adopt-an-animal' scheme in wake of covid-19.**

- A. Indravati National Park
- B. Nandankanan Zoological Park
- C. Kali Tiger Reserve
- D. Govind Wildlife Sanctuary

**Answer: B**

**Explanation**

- The Nandankanan Zoological Park, nicknamed Garden of God, was established in 1960, and opened to the public in 1979 and became the first zoo in India to join the World Association of Zoos and Aquariums (WAZA) in 2009.
- Kanjia Lake, a wetland of national importance is located along the Nandankanan Zoological Park.
- It is the only zoo in the country, which has Patas Monkeys, Eastern Rosella variety of parakeet and Open-billed Stork (it is the second largest heronry for Open billed Storks in Odisha).
- It is also the first zoo in the country where Gharials and endangered Ratel were born in captivity.
- The zoo enjoys a good reputation internationally for successfully breeding black panthers, gharials, and white tigers in captivity.
- Nandankanan is the first zoo in the World to breed White tiger and Melanistic tiger.
- It is the only conservation breeding centre of Indian Pangolins in the world.
- It is the only zoo in India to have an Open-top Leopard Enclosure.
- Nandankanan is the only zoo in India after which an express train Puri-New Delhi express has been named as "Nandankanan Express".

**Adopt an Animal**

- The "Adopt an Animal" program would support the Zoo by providing quality food to meet their nutritional requirements, medical care, equipment, up gradation of the enclosure and enrichments.
- The adopter (Zoo Parent) would pay the amount fixed for each species he would like to adopt.
- No adopters would be allowed to take the animal home.
- All the adopted animals would remain in the care and custody of the Zoo, and no ownership rights would be conferred.
- It harnesses public involvement and support; and more importantly, it helps in garnering affirmative action, especially for endangered species, by educating the public and ensuring their help.

**9. Which of the following statements regarding aquaponics are correct?**

- 1. It is an ecologically sustainable model that combines Hydroponics with Aquaculture.
  - 2. In this both fish and plants can grow in one integrated ecosystem.
- A. 1 only

- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

**Answer: C**

#### **Explanation**

- Aquaponics is a combination of aquaculture, which is growing fish and other aquatic animals, and hydroponics which is growing plants without soil.
- Aquaponics uses these two in a symbiotic combination in which plants are fed the aquatic animals' discharge or waste.
- In return, the vegetables clean the water that goes back to the fish. Along with the fish and their waste, microbes play an important role to the nutrition of the plants.
- These beneficial bacteria gather in the spaces between the roots of the plant and convert the fish waste and the solids into substances the plants can use to grow.
- The result is a perfect collaboration between aquaculture and gardening.

**10. Eriocaulon parvicephalum and Eriocaulon karaavalense recently heard in news are?**

- A. A type of caterpillar recently found in Nilgiri hills.
- B. Butterflies to be chosen as national butterfly of India.
- C. Two new types of blue ginger species found in Sikkim.
- D. A plant group found in Western Ghats.

**Answer: D**

#### **Explanation**

- Pipeworts (Eriocaulon) is a plant group which completes its life cycle within a small period during monsoon.
- It exhibits great diversity in the Western Ghats.
- Scientists from the Agharkar Research Institute in Pune have recently discovered two new species of pipeworts in the Western Ghats
- The species reported from Sindhudurg district of Maharashtra has been named Eriocaulon parvicephalum (due to its minute inflorescence size),
- And the other reported from Kumta, Karnataka is called Eriocaulon karaavalense (named after Karaavali, Coastal Karnataka region).
- Identification of the species belonging to Eriocaulon is very difficult as they all look similar, which is why the genus is often referred to as a 'Taxonomist's nightmare'.

**11. Which of the following organizations has recently won UN award for its efforts to combat climate change amid the Covid-19 pandemic?**

- E. The Global Himalayan Expedition (GHE)

- F. U.S. Environmental Protection Agency (EPA)
- G. Intergovernmental Panel on Climate Change (IPCC)
- H. National Center for Atmospheric Research (NCAR)

**Answer: A**

### Explanation

- The Global Himalayan Expedition (GHE) has won a prestigious UN award for its efforts to combat climate change amid the Covid-19 pandemic.
- The organization is among the winners of the 2020 UN Global Climate Action Award.
- GHE is world's first organisations that is using tourism and technology to bring solar energy to remote communities as recognised by the World Travel and Tourism Council (WTTC) and the United Nations World Tourism Organisation (UNWTO).
- GHE is an Indian organisation that opens up the tourism and technology in order to help remote communities to access solar energy.
- It conducts Impact Expeditions that help the remote Himalayan villages.
- The organisation uses the portion of the expedition fee to fund the capital cost of the hardware, transportation, installation and training of village-scale solar micro-grids.
- The micro-grid infrastructure is owned and operated by the community.

**12. Which of the following committee was formed to look after the problem of stubble burning?**

- A. Kasturirangan committee
- B. MeenaKumari committee
- C. Madan B Lokur committee
- D. C Rangarajan committee

**Answer: C**

### Explanation

- Kasturirangan panel – Western Ghats
- Meenakumari panel – deep sea fishing policy
- C Rangarajan panel- measurement of poverty.

**13. Based on the following statements identify the bird?**

1. These are world's longest travelling raptors start travelling with the onset of winters.
  2. They get their name from the river that forms the border between Russia and China.
  3. Nagaland is considered as its world capital.
  4. IUCN status: least concerned.
- A. Osprey

- B. Pacific Golden Plover
- C. Asiatic Sparrow-Hawk
- D. Amur Falcon

**Answer: D**

### Explanation

- Amur falcons, the world's longest travelling raptors start travelling with the onset of winters.
- The raptors breed in southeastern Siberia and northern China, and migrate in millions across India and then over the Indian Ocean to southern Africa before returning to Mongolia and Siberia. Their 22,000-kilometre migratory route is one of the longest amongst all avian species.
- They get their name from the Amur River that forms the border between Russia and China.
- Doyang Lake in Nagaland is better known as a stopover for the Amur falcons during their annual migration from their breeding grounds to warmer South Africa. Thus, Nagaland is also known as the Falcon Capital of the World.
- The birds are the least concern under the International Union for Conservation of Nature (IUCN) Red List, but the species is protected under the Indian Wildlife Protection Act, 1972, and the Convention on Migratory Species, to which India is a signatory (which means it is mandatory to protect the birds).

**14. Which of the following statements in context of State of Global Air report 2020 are correct?**

1. India is among the top ten countries with highest ozone (O<sub>3</sub>) exposure in 2019.
  2. It is released by International Union of Air Pollution Prevention and Environmental Protection Association (IUAPPA).
- A. 1 only
  - B. 2 only
  - C. Both 1 and 2
  - D. Neither 1 nor 2

**Answer: A**

### Explanation

- Recently, a global study, State of Global Air 2020 (SoGA 2020) has been released by the Health Effects Institute (HEI).
- It highlights that air pollution is the largest risk factor for death among all health risks and it is the first-ever comprehensive analysis of air pollution's global impact on newborns.
- HEI is an independent, nonprofit research institute funded jointly by the USA's Environmental Protection Agency and others
- India, Bangladesh, Pakistan and Nepal are among the top ten countries with the highest PM<sub>2.5</sub> (particulate matter) exposures in 2019 and all of these countries experienced increases in outdoor PM<sub>2.5</sub> levels between 2010 and 2019.

- India is also among the top ten countries with highest ozone (O<sub>3</sub>) exposure in 2019. Also, among the 20 most populous countries, India recorded the highest increase (17%) in O<sub>3</sub> concentrations in the past ten years.
- Long-term exposure to outdoor and household (indoor) air pollution contributed to over 1.67 million annual deaths from stroke, heart attack, diabetes. Lung cancer, chronic lung diseases, and neonatal diseases, in India in 2019.

**15.KOMODO DRAGONS** recently heard in news are species of?

- A. Snake
- B. Mandrinfish
- C. Dragonfly
- D. Lizard

**Answer: D**

**Explanation**

- The Komodo dragon is the largest living species of lizard.
- They are listed as Vulnerable by the IUCN.
- Komodo dragons hunt and prey including invertebrates, birds, and mammals.
- It is claimed that Komodo's have a venomous bite, which has been shown to secrete an anticoagulant.
- The Indonesian government ordered to relocate the residents of an island in eastern Indonesia called the island of Komodo in a bid to conserve rare Komodo dragons.

## 7. Science & Technology

To watch the following questions on YouTube, click on the links given below

- [Video 1](#)
- [Video 2](#)

1. Which of the following statements with respect to Shaurya missile are correct?

1. The surface-to-surface medium range Shaurya missile can reach speeds of 7.5 Mach.
2. The cruise missile can hit targets 400 kilometers away - its range increased from the existing 290 kilometers.
3. The 10 meter-long missile - weighing 6.2 tonne - can carry both nuclear and conventional warheads weighing up to 1,000 kilograms.

Select the correct code

- A. 1 and 3 only
- B. 1 and 2 only
- C. 2 and 3 only
- D. 1, 2 and 3

**Answer: D**

2. What is the theme of world space week 2020?

- A. Women in Space
- B. Satellites Improve Life
- C. Exploring New Worlds In Space
- D. Space Unites the World

**Answer: B**

3. The term K- family frequently heard in news is related to which of the following?

- A. Satellite missions to be launched by NASA
- B. GIS based mapping by LATMOS
- C. Missile system developed by DRDO
- D. Data computing set developed by CNSA

**Answer: C**

4. The term CBD OIL is recently seen in news. Consider the following statements related to the same:

1. It is an analgesic product.

2. CBD oil manufactured under a licence issued by the Drugs and Cosmetics Act, 1940 can be legally used.

Select the correct statement

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. None of the above

Answer: C

5. Which of the following are correctly matched?

1. Cassini Spacecraft – SpaceX
2. HAYABUSA – JAXA
3. EMISAT - ISRO

Choose the correct answer -

- A. 1 and 2
- B. 2 and 3
- C. 1 and 3
- D. All of the above

Answer: B

1. Which of the following statements regarding Recycling of Ships are correct?

1. Under Ship Recycling Act, 2019, India has acceded to Hong Kong Convention for Ship Recycling under International Maritime Organization (IMO).
2. The Centre has notified the directorate general of shipping as the National authority for recycling of ships.

Select the correct code

- A. 1 only
- B. 2 only
- C. Both 1 and 2
- D. Neither 1 nor 2

Answer: C

Explanation

- The Centre has notified the directorate general of shipping as the National authority for recycling of ships.
- The notification was issued under the section 3 of the Recycling of Ships Act, 2019.

- The National Authority of Ship Recycling is to be set up in Gandhinagar.
- DG Shipping is authorized to administer, supervise and monitor all activities relating to ship recycling in the country.
- It will also be the final authority for the various approvals required by the ship-recycling yard owners and state governments.
- Under Ship Recycling Act, 2019, India has acceded to Hong Kong Convention for Ship Recycling under International Maritime Organization (IMO).
- IMO adopted the Hong Kong International Convention for the Safe and Environmentally Sound Recycling of Ships in 2009.
- The guidelines are aimed at ensuring that ships, being recycled after reaching the end of their operational lives, do not pose any unnecessary risks to human health, safety and the environment.
- The Convention is yet to come into force because it has not been ratified by 15 nations, representing 40 per cent of the world merchant shipping by gross tonnage (capacity) and a maximum annual ship recycling volume of not less than 3 per cent of the combined tonnage of the countries.

**2. Identify the submarine based on the statements given below?**

- 1. It is the last of the four indigenously built Anti-Submarine Warfare (ASW) stealth corvettes built under Project 28 (Kamorta class).**
- 2. The ship is the reincarnation of the erstwhile Arnala Class missile corvette of the same name.**
- 3. It is named after the capital of the Lakshadweep group of islands.**

**Select the correct code**

- A. INS Kamorta
- B. INS Kadmatt
- C. INS Kiltan
- D. INS Kavaratti

**Answer: D**

**Explanation**

- Recently, INS Kavaratti has been formally inducted into the Indian Navy at the Naval Dockyard in Eastern Naval Command (ENC), Visakhapatnam.
- It is named after the capital of the Lakshadweep group of islands.
- It is the last of the four indigenously built Anti-Submarine Warfare (ASW) stealth corvettes built under Project 28 (Kamorta class)
- Built by Garden Reach Shipbuilders and Engineers (GRSE), Kolkata.
- The ship is regarded as one of the most potent ASW stealth corvettes to have been constructed in India as it joins three other ships of the same class INS Kamorta, INS Kadmatt and INS Kiltan at the ENC.

- Its induction is a game-changer in the eastern seaboard, especially with the Chinese submarines trying to increase their presence in the Indian Ocean.
- It has enhanced stealth features resulting in reduced Radar Cross Section (RCS) achieved by the superstructure along with optimally sloped surfaces
- INS Kavaratti and INS Kiltan are the first two major warships in the country to have the unique feature of the superstructure made of carbon fibre composite material.
- It has high indigenous content with the state-of-the-art equipment and systems to fight in Nuclear, Biological and Chemical (NBC) warfare conditions.
- Some of the major equipment/ systems developed indigenously include Combat Management System, Torpedo Tube Launchers and Infra-Red Signature Suppression System, etc.
- The high level of indigenisation incorporated in the production accentuates the objectives of Atmanirbhar Bharat Initiative.
- The ship is the reincarnation of the erstwhile Arnala Class missile corvette of the same name, INS Kavaratti-P 80, a ship that played an important role in the liberation of Bangladesh in 1971.

**3. Which of the following statements regarding Thalassaemia Bal Sewa Yojna are correct?**

1. It was launched by The Ministry of Health and Family Welfare.
2. It is funded by IOCL Corporate Social Responsibility (CSR).
3. It is regarding the treatment of renal failure.
4. Only patients whose monthly family income is below Rs 20,000 will be eligible for this assistance.

**Select the correct code:**

- A. 1 and 2 only
- B. 2 and 3 only
- C. 3 and 4 only
- D. 1 and 4 only

**Answer: D**

**Explanation**

- The Ministry of Health and Family Welfare launched the second phase of “Thalassaemia Bal Sewa Yojna” for the underprivileged Thalassaemic patients.
- The Hematopoietic Stem Cell Transplantation (HSCT) program was launched in 2017 and is funded by Coal India Corporate Social Responsibility (CSR)
- It will be extended for next two years from 2020.
- Thalassaemia: It is a genetic blood disorder that causes the body to have less hemoglobin than normal. Hemoglobin enables red blood cells to carry oxygen. Thalassaemia can cause anemia, leading to fatigue.

- Hematopoietic Stem Cell: It is an immature cell that can develop into all types of blood cells, including white blood cells, red blood cells, and platelets. Hematopoietic stem cells are found in the peripheral blood and the bone marrow. Also called blood stem cell.
- HSCT: It refers to the transplantation of stem cells from various sources (bone marrow, growth factor-stimulated peripheral blood, and umbilical cord blood) for the treatment of various diseases like autoimmune and genetic diseases.
- Only patients whose monthly family income is below Rs 20,000 will be eligible for this assistance.
- The scheme has been extended to cover Aplastic Anaemia patients (lack of blood cell production in body).

**4. Which of the following statements regarding SANT missile are correct?**

1. **SANT (Stand-off Anti-tank) missile has been successfully test-fired off the coast of Odisha and is being developed by DRDO and IAF.**
2. **The missile is reported to be the upgraded version of India's Helina (Helicopter Launched Nag) missile.**
3. **SANT missile can destroy the targets from a short-range only.**
4. **The missile will have both Lock-on after Launch and Lock-on before Launch capabilities.**

Select the correct code

- A. 1, 2 and 3
- B. 1, 2 and 4
- C. 1, 3 and 4
- D. 1, 2, 3 and 4

**Answer: B**

**Explanation**

- India successfully test-fired SANT (Stand-off Anti-tank) missile off the coast of Odisha.
- The missile is being developed by Imarat (DRDO's research centre) in collaboration with the IAF.
- The missile is reported to be the upgraded version of India's HeLiNa (Helicopter Launched Nag) missile.
- The earlier version of the missile had a range of around 8 km but the upgraded variant can cover at least double the distance.
- SANT missile has a range between 15 to 20 km.
- It is equipped with a nose-mounted active radar seeker. Thus, the launch platform can be located at a safe distance from the target area.
- The missile is stated to have both Lock-on After Launch and Lock-on Before Launch capabilities.
- SANT missile will be launched from a Mi-35 helicopter (Russian helicopter) gunship in the month of December.

- The missile hit the target precisely and performed extremely complex manoeuvres.
- Unlike other missiles of this class, the SANT missile can destroy the targets from a long-range.
- As per the officials associated with the missile, SANT is one of the best airborne anti-armour guided missiles in the world.

**5. Frequently heard in news OSIRIS-Rex was launched by which of the following space agencies?**

- A. NASA - The National Aeronautics and Space Administration
- B. Roscosmos
- C. ESA- European Space Agency
- D. JAXA- The Japan Aerospace Exploration Agency

**Answer: A**

**Explanation**

- OSIRIS-REx was launched from Cape Canaveral, Florida on September 8, 2016.
- The OSIRIS-REx mission is not the first to ever visit an asteroid and attempt a sample return.
- Japan has done (Hayabusa Mission) before it and Europe (Rosetta Mission) has managed to land on a comet.
- Mission:
  - ✓ The Mission aims to study asteroid Bennu, collect a sample and return it to Earth in 2023.
  - ✓ The mission will spend 2.5 years, mapping its surface and studying its composition.
  - ✓ It has now collected (in October 2020) more than two kilograms of asteroid samples into a capsule for return to Earth.
  - ✓ This has been packed away in a sterile capsule to be returned to Earth in 2023.