

10 PM Current Affairs Quiz Compilation

03rd to 8th October, 2022

PRELIMS

Q.1) Consider the following statements:

1. Nilgiri tiger is a butterfly endemic to Western ghats.
2. Southern birdwing is the smallest Indian butterfly.

Select the correct answer using the codes given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Explanation –

Statement 1: Species endemic to the Western Ghats are - Red-disc bushbrown, Palni Sailer, Palni Fritillary, Palni Four-ring, Nilgiri tiger.

Statement 2: The statement is incorrect Southern birdwing is the largest Indian butterfly.

Source: <https://www.thehindu.com/news/national/kerala/several-species-recorded-in-munnar-faunal-survey/article65942345.ece>

Q.2) With reference to Medical Termination of Pregnancy (Amendment) Act, 2021 consider the following statements:

1. It provides for the abortion of unmarried women along with married women.
2. The act will help to contribute towards ending preventable maternal mortality and achieving Sustainable Development Goals.
3. The gestational limit for termination of a pregnancy has been decreased in the act.

Which of the statements given above are correct?

- a) 1 and 3 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

Answer: C

Explanation –

Statement 1: MTP Act, 2021 provides for the abortion of unmarried women along with married women.

Statement 2: It will help to contribute towards ending preventable maternal mortality and achieving Sustainable Development Goals.

Statement 3: The statement is incorrect. The gestational limit for termination of a pregnancy has been increased from 20 to 24 weeks.

Source: <https://www.thehindu.com/sci-tech/health/explained-how-has-the-supreme-court-expanded-abortion-rights/article65960016.ece>

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Q.3) Consider the following:

1. Banks decrease the interest rates on loans.
2. There is an increase in Equated Monthly Instalments (EMIs).

Which of the above will be the impact of rising repo rates?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: B

Explanation -

When repo rate increase it leads to increase in the interest rates by banks. It makes loans costlier and make EMIs higher.

Source: <https://timesofindia.indiatimes.com/business/india-business/explained-how-rbi-rate-hike-may-impact-your-emis/articleshow/94565522.cms>

Q.4) Melatonin was seen in the news recently. It is -

- a) a wild bird species.
- b) viral disease.
- c) hormones related to sleep.
- d) a technology used in space.

Answer: C

Explanation -

Melatonin is a naturally occurring hormone secreted in our brains. It is related to the timing and quality of our sleep and wake rhythms and determined by our internal body clock.

Source: <https://www.thehindu.com/sci-tech/health/how-do-melatonin-gummy-bears-affect-children/article65965585.ece>

Q.5) With reference to Swachh Survekshan awards, 2022, consider the following statements;

1. It is an annual survey of cleanliness, hygiene and sanitation in cities and towns across India.
2. Indore has been ranked the cleanest city in India for the sixth consecutive year.
3. Telangana emerged as a cleanest States with more than 100 urban local bodies (ULBs).

Which of the statements given above is/are correct?

- a) 1 and 3 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

Answer: C

Statement 1 is correct: It is an annual survey of cleanliness, hygiene and sanitation in cities and towns across India.

Statement 2 is correct: Indore has been ranked the cleanest city in India for the sixth consecutive year.

Statement 3 is incorrect: Madhya Pradesh emerged as a cleanest States with more than 100 urban local bodies (ULBs).

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Note: Telangana was ranked first for the cleanliness of its villages under Swachh Survekshan Gramin's Large States category.

Source: [PIB](#)

Q.6) With reference to Telecom Technology Development Fund, consider the following statements;

1. The objective of TDF is also to boost connectivity in underserved urban areas, R&D, skill development.
2. The scheme entails grants to Indian entities to encourage and induct indigenous technologies.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Statement 1 is correct: The objective of TDF is also to boost connectivity in underserved urban areas, R&D, skill development.

Statement 2 is correct: The scheme entails grants to Indian entities to encourage and induct indigenous technologies.

Source: [PIB](#)

Q.7) With reference to Black cocaine, consider the following statements;

1. Black cocaine is a mixture of regular cocaine base with various substances to camouflage typical appearance.
2. It is consumed in the Black form itself.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Statement 1 is correct: The resin of the Silphion was extensively used as a spice, perfume, aphrodisiac, contraceptive and medicine.

Statement 2 is incorrect: The pure cocaine base is then recovered from the mixture by extraction using common organic solvents such as methylene chloride or acetone. A second process is required to convert the cocaine base into powdered cocaine hydrochloride.

Source: [Indian Express](#)

Q.8) Which of the following is/are the advantage of tokenisation?

1. Tokenisation lends greater credibility to seamless and secure payments experience.
2. The credit card EMIs, instant pay-outs, and instant cashbacks will increase due to tokenisation.
3. The customer data will no longer be stored with either the merchant or the payment aggregator.

Select the correct answer from the codes given below;

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: C

Statement 1 is correct: Tokenisation lends greater credibility to seamless and secure payments experience.

Statement 2 is incorrect: When cards migrate to tokenization, the credit card EMIs, instant pay-outs, and instant cashbacks may take a major hit.

Statement 3 is correct: The customer data will no longer be stored with either the merchant or the payment aggregator.

Source: [Indian Express](#)

Q.9) Which of the following country is a land locked country?

- a) Portugal
- b) Burkina Faso
- c) Cambodia
- d) Angola

Answer: B

Recently, Burkina Faso witnesses second coup of the year. Burkina Faso is a landlocked country in West Africa, bordered by Mali to the northwest, Niger to the northeast, Benin to the southeast, Togo and Ghana to the south, and the Ivory Coast to the southwest.

It was previously called Republic of Upper Volta. The country owes its former name of Upper Volta to three rivers which cross it: the Black Volta (or Mouhoun), the White Volta (Nakambé) and the Red Volta (Nazinon).

Source: [The Hindu](#)

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Q.10) With reference to Young, Upcoming and Versatile Authors scheme, consider the following statements;

1. Under it, the government will help authors to create high quality R&D research papers and publish them in top Science journals.
2. It was launched by the Department of Higher Education.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: B

Statement 1 is incorrect: It is an Author Mentorship programme to train young and budding authors (below 30 years of age) in order to promote reading, writing and book culture in the country, and project India and Indian writings globally.

Statement 2 is correct: It was launched by the Department of Higher Education under the Ministry of Education.

Source: [PIB](#)

PRELIMS

Q.1) With reference to Red Sanders consider the following statements:

1. They are endemic tree species of China.
2. They have been listed endangered in IUCN Red data List.

Select the correct answer using the code given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: B

Explanation –

Statement 1: Red Sanders are endemic tree species of India. They are mostly found in the Eastern Ghats.

Statement 2: They have been listed endangered in IUCN Red data List and they lie in the Schedule II of the Wildlife Protection Act 1972.

Source: <https://www.thehindu.com/news/national/telangana/no-end-to-woes-of-private-red-sanders-growers-in-telangana/article65963108.ece>

Q.2) With reference to Baltic Sea consider the following statements:

1. Denmark, Estonia and Finland are some of the countries that enclose the Baltic Sea.
2. It is connected to the North Sea by the Keil Canal.
3. It includes the Gulf of Mexico.

Which of the statements given above are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: A

Explanation –

Statement 1: Baltic Sea is enclosed by Denmark, Estonia, Germany, Latvia, Lithuania, Poland, Russia, Sweden and the North and central European Plain.

Statement 2: Baltic Sea is artificially connected to White Sea by the White Sea Canal and North Sea by the Kiel Canal.

Statement 3: The statement is incorrect. It includes Gulf of Bothnia, the Bay of Bothnia, the Gulf of Finland, the Gulf of Riga and the Bay of Gdansk.

Source: <https://www.thehindu.com/news/international/expained-the-nord-stream-pipeline-leaks-what-happened-and-what-is-at-stake/article65950516.ece>

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Q.3) Consider the following statements with respect to Ethanol Blending:

1. Ethanol is naturally produced by the fermentation of sugar by yeasts.
2. Ethanol Blending Programme (EBP) aims at reducing the dependence on sugars for sweetening.

Select the correct statements using the codes given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Explanation –

Statement 1: Ethanol is naturally produced by the fermentation of sugar by yeasts.

Statement 2: The statement is incorrect. Ethanol Blending Programme (EBP) aims at reducing the dependence on importing the crude oils and it will also give boost to farmer's income.

Source: <https://indianexpress.com/article/india/sugarcane-arrears-to-farmers-at-5-year-low-govt-data-shows-8188380/>

Q.4) Consider the following statements:

1. Kolu bommais refers to the decoration of dolls for Navratri.
2. Vilachery terracotta dolls are famous kolu idols from Tamil Nadu.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Explanation –

Statement 1: Kolu bommais in Tamil refers to the decoration of dolls for Navratri.

Statement 2: Vilachery terracotta dolls are famous kolu idols from Tamil Nadu.

Source: <https://www.thehindu.com/videos/watch-what-makes-vilachery-dolls-special/article65966534.ece>

Q.5) Desertification and Land Degradation Atlas of India is published by which of the following department/organisation?

- a) NITI Aayog
- b) Space Application Centre, ISRO
- c) Down To Earth
- d) National Disaster Management Authority (NDMA)

Answer: B

Published by: The Atlas has been published by Space Application Centre, ISRO, Ahmedabad.

Prepared using: The Atlas was prepared using **IRS Advanced Wide Field Sensor (AWiFS)** data of 2011-13 and 2003-05 time frames in the Geographical Information System (GIS) environment. The Atlas provides a state-wise area of degraded lands for the time frame 2018-19.

It also provides **the change analysis** for the duration of 15 years from 2003-05 to 2018-19.

Source: [The Hindu](#)

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Q.6) With reference to Nobel Prize, consider the following statements;

1. The first woman to win the Nobel Prize was Marie Curie.
2. Rabindranath Tagore was the first non-European and Indian to get a Nobel Prize in literature.
3. All the Nobel Prizes are given in Stockholm, Sweden.

Which of the statements given above is/are correct?

- a) 1 and 3 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

Answer: C

Statement 1 is correct: The first woman to win the Nobel Prize was Marie Curie, and she won the award twice.

Statement 2 is correct: Rabindranath Tagore was the first non-European and Indian to get a Nobel Prize in 1913 in literature.

Statement 3 is incorrect: All the Nobel Prizes are given in Stockholm, Sweden except for the Nobel Peace Prize which is awarded in Oslo, Norway.

Source: [Indian Express](#)

Q.7) With reference to the SASTRA Ramanujan Prize, consider the following statements;

1. It is presented annually to individuals aged 32 and below, who made outstanding contributions in the field of mathematics.
2. It was instituted by the Department of Science and Technology.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Statement 1 is correct: It is presented annually to individuals aged 32 and below, who made outstanding contributions in the field of mathematics.

Statement 2 is incorrect: It was instituted by the Shanmugha Arts, Science, Technology & Research Academy (SASTRA) in 2005 with a cash prize of \$10,000.

Source: [The Hindu](#)

Q.8) Which of the following factors might increase acidity in Ocean?

1. Seawater is getting mixed with melted ice water.
2. Melting of Sea ice.
3. Exposure of sea ice to atmospheric carbon dioxide.

Select the correct answer from the codes given below;

- a) 1 and 3 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

Answer: D

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A team of researchers identified a strong correlation between the accelerated rate of melting ice and the rate of ocean acidification. Sea-ice melt is the key mechanism explaining rapid pH decrease because it changes surface water in three primary ways.

- 1) The water under the sea ice has a deficit of carbon dioxide. This water now is exposed to atmospheric carbon dioxide and can take it up freely, thus becoming acidic.
- 2) The seawater mixed with meltwater is light and can't mix easily into deeper waters, which means the carbon dioxide is concentrated at the surface.
- 3) The meltwater dilutes the carbonate ion concentration in the seawater. Thereby weakening its ability to neutralise the carbon dioxide into bicarbonate and rapidly decreasing ocean pH.

Source: [Indian Express](#)

Q.9) With reference to Pradhan Mantri Awas Yojana-Gramin, consider the following statements;

1. Majority of the beneficiaries of the scheme are women.
2. It was launched by the Ministry of Rural Development.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Statement 1 is correct: As on September 29, 2022, a total of two crore houses had been constructed out of the 2.46 crore houses that were sanctioned. Of this, 69% are owned partly or completely by women.

Statement 2 is correct: It was launched by the Ministry of Rural Development.

Source: [The Hindu](#)

Q.10) With reference to Light Combat Helicopter (LCH), Prachand, consider the following statements;

1. Chetak and Cheetah are indigenous light combat attack helicopters.
2. The LCH is the only attack helicopter in the world which can land and take off at an altitude of 5,000 meters.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: B

Statement 1 is incorrect: India has been operating sub-3-ton category French-origin legacy helicopters, Chetak and Cheetah, made in India by the HAL. These single-engine machines are primarily used for utility helicopters.

Statement 2 is correct: The LCH is the only attack helicopter in the world which can land and take off at an altitude of 5,000 meters with a considerable load of weapons and fuel, meeting the specific requirements laid out by the Indian Armed Forces.

Source: [Indian Express](#)

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Q.1) Global Innovation Index is published by –

- a) World Bank
- b) United Nations
- c) World Intellectual Property Organization
- d) International Monetary Fund

Answer: C

Explanation - Global Innovation Index is published by World Intellectual Property Organization. India has ranked 40th position in Global Innovation index 2022.

Source: <https://www.thehindu.com/news/national/other-states/indias-rank-in-global-innovation-index-has-improved-president-murmu/article65969745.ece>

Q.2) With reference to OPEC Plus consider the following statements:

1. It is an alliance between OPEC and non-OPEC countries.
2. The non-OPEC countries which export crude oil are termed as OPEC Plus countries.
3. Saudi Arabia is one of the OPEC Plus countries.

Which of the statements given above are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: A

OPEC Plus is an alliance between OPEC and non-OPEC countries. The non-OPEC countries which export crude oil are termed as OPEC Plus countries. Statement 3 is incorrect. Saudi Arabia is one of the OPEC countries.

Source: <https://www.thehindu.com/news/international/opec-to-debate-large-cut-in-amount-of-crude-it-ships-to-global-economy/article65971746.ece>

Q.3) Which of the following is not correct regarding the collegium system?

- a) It is the way by which judges of the Supreme Court and High Courts are appointed and transferred.
- b) It is mentioned in Article 356 of the Constitution of India.
- c) SC collegium comprises of five-members headed by the Chief Justice of India.
- d) The government can return the recommendation for reconsideration by collegium.

Answer: B

Collegium system has not been mentioned in the Constitution of India. The collegium came into being through the interpretations of the relevant provisions of the Constitution that the Supreme Court made in three judges' cases.

Source: <https://indianexpress.com/article/explained/everyday-explainers/what-is-the-sc-collegium-how-it-works-8191113/>

Q.4) Which of the following statement is correct regarding storm surge?

- a) It is the abnormal rise in seawater level during a storm.
- b) It is the total observed seawater level during a storm.
- c) It is caused by the gravitational pull of the sun and the moon.
- d) It is commonly associated with high pressure weather system.

Answer: A

Explanation –

Storm surge is the abnormal rise in seawater level during a storm, measured as the height of the water above the normal predicted astronomical tide. The surge is caused primarily by a storm's winds pushing water onshore. The amplitude of the storm surge at any given location depends on the orientation of the coast line with the storm track, the intensity, size, and speed of the storm.

Source: <https://www.thehindu.com/news/international/watch-what-is-a-storm-surge/article65967561.ece>

Q.5) With reference to Malaria, consider the following statements;

- 1. It is caused by the bite of the female mosquito whenever it bites the human.
- 2. 'Gene drive' technology can help in controlling Malaria.
- 3. Mosquirix, the malaria vaccine, offers protection against all kinds of malarial parasites.

Which of the statements given above is/are correct?

- a) 1 and 3 only
- b) 2 and 3 only
- c) 2 only
- d) 1, 2 and 3

Answer: C

Statement 1 is incorrect: It is caused by the bite of the female Anopheles mosquito (vector) if the mosquito itself is infected with a malarial parasite.

Statement 2 is correct: 'Gene drive' technology can help in controlling Malaria. Gene drive would cause the anti-parasite genetic modification to be preferentially inherited, making it spread more widely among any natural population of mosquitoes.

Statement 3 is incorrect: Mosquirix, the malaria vaccine, offers no protection against P vivax malaria, which is prevalent in many countries outside Africa.

Source: [Indian Express](#)

Q.6) Sapta Kosi high dam project will be constructed between India and which of the following countries?

- a) Myanmar
- b) Bangladesh
- c) Nepal
- d) Bhutan

Answer: C

Sapta Kosi High Dam is a multipurpose project proposed to be constructed on the Saptakoshi River of Nepal.

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The project is primarily aimed to control floods in southeast Nepal and northern Bihar and to generate hydropower. The project will provide irrigation, control floods and generate 3,000 MW of electricity.

Source: [TOI](#)

Q.7) With reference to click chemistry, consider the following statements;

1. Under it, scientists must look for starting molecules that easily react with each other, while producing any particular compound or a complex molecule.
2. This click approach emphasized the need to replicate nature's efficiency, not its processes, or even products.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Statement 1 is correct: While trying to produce any particular compound or a complex molecule, one must look for starting molecules that easily react with each other.

Statement 2 is correct: This click approach emphasised the need to replicate nature's efficiency, not its processes, or even products.

Source: [ForumIAS](#)

Q.8) With reference to Sugar Production, consider the following statements;

1. India is the world's largest producer and consumer of sugar.
2. India is the world's largest exporter of sugar.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Statement 1 is correct: India is the world's largest producer and consumer of sugar.

Statement 2 is incorrect: India is the world's 2nd largest exporter of sugar.

Source: [PIB](#)

Q.9) India Mobile Congress is organised by which of the following organization?

- a) NITI Aayog
- b) Telecom Regulatory Authority of India
- c) Department of Telecommunications
- d) National Informatics Centre

Answer: C

IMC is considered the largest Digital Technology Forum in Asia for bringing together the industry, Government, academia, and other ecosystem players to discuss the latest industry technology trends around major themes such as SG, Artificial Intelligence (AI), Internet of things (IoT) etc.

Concerned Ministry: Minister of Information Technology.

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Organised by: Department of Telecommunications and Cellular Operators Association of India (COAI)

Source: [PIB](#)

Q.10) Which of the following statements is not correct about Cholas?

- a) The Chola kingdom stretched across present-day Tamil Nadu, Kerala, and parts of Andhra Pradesh and Karnataka.
- b) The Chola rulers destroyed Anuradhapura, the ancient capital of the rulers of Sri Lanka.
- c) There were instances where cities were named after women.
- d) The Chola dynasty was founded by the king Gandaraditya.

Answer: D

The dynasty was founded by the king Vijaylaya, described as a “feudatory” of the Pallavas by historian Satish Chandra in the book ‘The History of Medieval Era’.

Source: [Indian Express](#)

PRELIMS

Q.1) Consider the following statements:

1. The inter-state river disputes in India are governed by the Inter-State River Water Dispute Act, 1956.
2. Water is present in the Union List which gives exclusive power to the central government to make laws on it.
3. The decision of Water Dispute Tribunal has the same effect as an order of the Supreme Court.

Which of the statements given above are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: A

Explanation –

Statement 1: The inter-state river disputes in India are governed by the Inter-State River Water Dispute Act, 1956.

Statement 2: The statement is incorrect. As per Entry 17 of the State List water is a state subject.

Statement 3: The decision of Water Dispute Tribunal has the same effect as an order of the Supreme Court.

Source: <https://www.thehindu.com/news/national/explained-water-centre-state-powers-river-disputes-laws-drinking-water-supply/article65895481.ece>

Q.2) With reference to Jal Jeevan Mission (JJM) consider the following statements:

1. It aims at ensuring potable drinking water security in every rural household and public institutions across India by 2024.
2. It is being implemented by the Ministry of Rural Development.

Select the correct statement using the code given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Explanation – Jal Jeevan Mission (JJM) aims at ensuring potable drinking water security in every rural household and public institutions across India by 2024. It is being implemented by the Ministry of Jal Shakti. It was launched in 2019.

Source: <https://www.thehindu.com/news/national/explained-water-centre-state-powers-river-disputes-laws-drinking-water-supply/article65895481.ece>

Q.3) With reference to 'Click Chemistry' consider the following statements:

1. It is a quick reaction occurred in the presence of oxygen and water without releasing unwanted by-products.
2. Potassium is used as a catalyst in the click reaction.
3. It can help to diagnose and treat cancer in a targeted way.

Which of the statements given above are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: C

Explanation –

Statement 1: Click chemistry is a quick reaction occurred in the presence of oxygen and water without releasing unwanted by-products.

Statement 2: The statement is incorrect. Copper is used as a catalyst in the click reaction.

Statement 3: Click chemistry can help to diagnose and treat cancer in targeted way. It can also reduce the side effects of chemotherapy.

Source: <https://www.thehindu.com/sci-tech/science/explained-research-in-click-and-bioorthogonal-chemistry-that-led-to-the-2022-nobel-prize-in-the-field/article65972562.ece>

Q.4) Which of the following statements is not correct regarding Parliament Committees?

- a) Ad hoc Committees are appointed for a specific purpose and they cease to exist after they have completed the task assigned to them.
- b) A Joint Parliamentary Committee (JPC) is constituted after the recommendation from the President.
- c) A Minister is not eligible for election or nomination to Financial Committees.
- d) The Committees look into the demands for grants of Ministries and look into their long-term plans and report to Parliament.

Answer: B

Explanation –

Parliament has the power to set up a Joint Parliamentary Committee (JPC) for a special purpose. It includes with members from both Houses for detailed scrutiny of a subject or Bill.

Source: <https://indianexpress.com/article/explained/explained-politics/parliament-committees-and-their-role-in-law-making-8191768/>

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Q.5) With reference to International Solar Alliance (ISA) consider the following statements:

1. It is an alliance of countries lying in completely or partly between the Tropic of Cancer and the Tropic of Capricorn.
2. It has been jointly founded by the USA and Germany.
3. One Sun One World One Grid (OSOWOG) is one of the projects under ISA.

Which of the statements given above are correct?

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: B

Explanation –

Statement 1: International Solar Alliance (ISA) is an alliance of countries lying in completely or partly between the Tropic of Cancer and the Tropic of Capricorn.

Statement 2: The statement is incorrect. It has been jointly founded by India and France.

Statement 3: One Sun One World One Grid (OSOWOG) is one of the projects under ISA.

Q.6) With reference to Vyommitra, consider the following statements;

1. It is a “female” robot astronaut which will fly aboard unmanned test missions ahead of the Gaganyaan Mission.
2. It was designed and developed by Defence Research and Development Organisation.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Statement 1 is correct: It is a “female” robot astronaut which will fly aboard unmanned test missions ahead of the Gaganyaan Mission.

Statement 2 is incorrect: It was designed and developed by Indian Space Research Organisation (ISRO).

Source: [The Hindu](#)

Q.7) Adulteration of diethylene glycol in medications will cause which of the following health impacts?

1. Neurological toxicity
2. Kidney failure
3. Multi-organ failure

Select the correct answer from the codes given below;

- a) 1 and 3 only
- b) 2 and 3 only
- c) 1 and 2 only
- d) 1, 2 and 3

Answer: D

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Diethylene glycol was used as an illegal adulterant in medications and could result in renal and neurological toxicity. Because of its toxicity, it is not allowed in food or drugs.

Due to its solubility, drugmakers have inappropriately substituted it for non-toxic ingredients such as glycerine in pharmaceuticals such as cough syrups and acetaminophen.

Acute kidney failure is the number one cause of death in poisoning cases, and it starts between eight and 24 hours after exposure to lethal doses of the substance. If people don't get treatment, symptoms progress to multi-organ failure in two to seven days.

Source: [The Hindu](#)

Q.8) With reference to Light Combat Helicopter (LCH), Prachand, consider the following statements;

1. It was inducted in Indian Air Force alone.
2. The LCH is the only attack helicopter in the world which can land and take off at an altitude of 5,000 meters with a considerable load.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: B

Statement 1 is incorrect: The Indian Army formally inducted its first Light Combat Helicopter on September 29.

Statement 2 is correct: The LCH is the only attack helicopter in the world which can land and take off at an altitude of 5,000 meters with a considerable load.

Source: [The Hindu](#)

Q.9) Which of the following is/are part of impossible trinity or the trilemma?

1. Independent monetary policy
2. Fixed exchange rate
3. Free flow of capital across borders
4. Rise in Non-Performing Assets

Select the correct answer from the codes given below;

- a) 1, 2 and 4 only
- b) 2, 3 and 4 only
- c) 1, 3 and 4 only
- d) 1, 2 and 3 only

Answer: D

The impossible trinity, or the trilemma, refers to the idea that an economy cannot pursue independent monetary policy, maintain a fixed exchange rate, and allow the free flow of capital across its borders at the same time.

According to economists, any economy can choose to pursue only two out of the three policy options noted above simultaneously in the long-run.

Source: [The Hindu](#)

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Q.10) With reference to Carbon Dots (CDs), consider the following statements;

1. CDs have the potential to be used instead of quantum dots, which are more toxic and less biocompatible.
2. CDs possess remarkable optical properties, which differ peculiarly based on the precursor used for synthesis.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Statement 1 is correct: CDs have the potential to be used instead of quantum dots, which are more toxic and less biocompatible.

Statement 2 is correct: CDs possess remarkable optical properties, which differ peculiarly based on the precursor used for synthesis.

Source: [DTE](#)

PRELIMS

Q.1) With reference to wetlands consider the following statements:

1. Wetlands are lands transitional zone between terrestrial and aquatic ecosystems.
2. Wetlands only support aquatic species.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: A

Explanation –

Statement 1: Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface, or the land is covered by shallow water.

Statement 2: The statement is incorrect. Wetlands may support both aquatic and terrestrial species.

Source: <https://www.thehindu.com/news/national/andhra-pradesh/fresh-lease-of-life-for-wetlands/article65956354.ece>

Q.2) Consider the following statements:

1. Pulicat Lake Bird Sanctuary is located in Kerala.
2. Pulicat Lake is the second largest brackish-water lake in India after Chilka lake in Odisha.

Select the correct statement using the codes given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: B

Explanation –

Statement 1: The statement is incorrect. Pulicat Lake Bird Sanctuary is located in Andhra Pradesh.

Statement 2: Pulicat Lake is the second largest brackish-water eco-system in India after Chilka lake in Odisha.

Source: <https://www.thehindu.com/news/national/andhra-pradesh/all-eyes-on-pulicat-restoration-project/article65955923.ece>

Q.3) Which of the following defines ‘Sustainable Finance’?

- a) It is the working procedure adopted by banks to decrease Non-Performing Assets (NPAs).
- b) It is the loan raised by private companies to invest in green energies.
- c) It is an investment decision that considers the environmental, social and governance (ESG) factors of an economic activity.
- d) It is a type of investments made in the green technologies to reduce the emissions of greenhouse gases (GHGs).

Answer: C

Explanation – Sustainable Finance is an investment decision that considers the environmental, social and governance (ESG) factors of an economic activity.

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Source: <https://www.dnaindia.com/personal-finance/report-experts-on-sustainable-finance-suggest-innovative-instruments-what-is-sustainable-finance-2990923>

Q.4) With reference to Credit Guarantee Scheme for Startups (CGSS) consider the following statements:

1. The scheme will provide collateral-free debt funding to startups.
2. Scheduled commercial banks are one of the member institutions (MI) eligible for lending under this scheme.

Select the correct statement using the code given below:

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Explanation –

Statement 1: Credit Guarantee Scheme for Startups (CGSS) will provide collateral-free debt funding to startups defined in the Gazette Notification issued by The Department for Promotion of Industry and Internal Trade (DPIIT).

Statement 2: CGSS has been approved for the purpose of providing credit guarantees to loans extended by member institutions (MIs) to finance eligible borrowers being startups. MIs include financial intermediaries (banks, financial institutions, NBFCs, AIFs) engaged in lending/investing and conforming to the eligibility criteria approved under the Scheme.

Source: <https://www.thehindu.com/business/govt-notifies-credit-guarantee-scheme-for-startups/article65981719.ece#:~:text=%22The%20Central%20Government%20has%20approved,being%20startups%2C%22%20it%20said.>

Q.5) With reference to digital rupee (eRe), consider the following statements;

1. eRe will provide an additional option to the currently available forms of money.
2. Under the indirect model, the central bank will be responsible for managing all the aspects of the CBDC system
3. A token-based CBDC is viewed as a preferred mode for CBDC-retail as it will be closer to physical cash.

Which of the statements given above is/are correct?

- a) 1 and 3 only
- b) 2 and 3 only
- c) 2 only
- d) 1, 2 and 3

Answer: A

Statement 1 is correct: eRe will provide an additional option to the currently available forms of money.

Statement 2 is incorrect: Two models are being examined for the issuance and management of CBDCs.

a) Direct model (single-tier model): Under this, the central bank will be responsible for managing all the aspects of the CBDC system, such as issuance, account-keeping, and transaction verification.

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b) Indirect model (two-tier model): Under this model, the central bank will issue the CBDC to consumers indirectly through intermediaries (banks and any other service providers) and any claim by consumers is managed by the intermediary because the central bank will only handle wholesale payments to intermediaries.

Statement 3 is correct: A token-based CBDC is viewed as a preferred mode for CBDC-retail as it will be closer to physical cash.

Source: [Business Standard](#)

Q.6) With reference to Scheduled Castes (SC), consider the following statements;

1. No person professing a religion different from Hinduism can be deemed to be a member of a Scheduled Castes (SC).
2. Kaka Kalelkar committee documented the existence of caste and caste discrimination among Dalits converted into Christianity and Muslim.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: B

Statement 1 is incorrect: The Constitution (Scheduled Castes) Order, 1950 under Article 341 stipulates that no person professing a religion different from Hinduism, Sikhism or Buddhism can be deemed to be a member of a Scheduled Caste(SC).

Statement 2 is correct: The First Backward Classes Commission headed by Kaka Kalelkar in 1955 documented the existence of caste and caste discrimination among Indian Christians and Indian Muslims, concluding that Dalit converts continued to face the same social disabilities even after leaving the Hindu fold.

Source: [ForumIAS](#)

Q.7) Which of the following is/are the benefits of Cheetah reintroduction project?

1. Restores historic evolutionary balance in ecosystem.
2. Can save endangered species of the grasslands / open forest eco-systems.
3. Aid evolutionary natural selection force.

Select the correct answer from the codes given below;

- a) 1 and 2 only
- b) 2 and 3 only
- c) 1 and 3 only
- d) 1, 2 and 3

Answer: D

Cheetah restoration is part of a prototype or model for the restoration of original cheetah habitats and their biodiversity. Bringing back a top predator restores historic evolutionary balance resulting in cascading effects on various levels of the ecosystem.

For instance, the cheetah has been the evolutionary natural selection force that has shaped the adaptation of high speeds in Indian antelopes and gazelles. By restoring cheetah, India would also be able to save not only its prey base comprising certain threatened species, but also other endangered species of the grasslands / open forest eco-systems, some of which are on the brink of extinction.

Source: [ForumIAS](#)

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Q.8) With reference to Green Steel, consider the following statements;

1. It is steel which is manufactured without the use of fossil fuels.
2. Direct electrification through electrolysis of iron ore can produce green steel.

Which of the statements given above is/are correct?

- a) 1 only
- b) 2 only
- c) Both 1 and 2
- d) Neither 1 nor 2

Answer: C

Statement 1 is correct: It is steel which is manufactured without the use of fossil fuels. This can be done by using low-carbon energy sources such as hydrogen, coal gasification, or electricity.

Statement 2 is correct: In order to decarbonise the iron and steel sector, the primary emphasis through technological interventions would be on substituting the primary production processes with cleaner alternatives. Such as, 1) Carbon capture, utilisation and storage (CCUS), 2) Replacing conventional sources of energy with low-carbon hydrogen, and 3) Direct electrification through electrolysis of iron ore.

Source: [ForumIAS](#)

Q.9) Poverty and Shared Prosperity 2022: Correcting Course report was released by which of the following organisation?

- a) International Monetary Fund (IMF)
- b) World Bank
- c) Food and Agriculture Organization
- d) World Economic Forum

Answer: B

The World Bank has recently released a report, titled “Poverty and Shared Prosperity 2022: Correcting Course.”

Source: [ForumIAS](#)

Q.10) Justice K.G. Balakrishnan panel, was recently seen in news, is related to which of the following?

- a) Regarding production and induction of Light Combat Helicopters.
- b) Regarding Scheduled Caste (SC) status to Dalits post-religious conversion.
- c) About reforms in telecom sector.
- d) Regarding launching digital rupee in India.

Answer: B

The Union government has now formed a three-member Commission of Inquiry to examine the issue of whether Scheduled Caste (SC) status can be accorded to Dalits who have over the years converted to religions other than Sikhism or Buddhism.

It is headed by Former Chief Justice of India, Justice K.G. Balakrishnan.

The commission’s inquiry will look into the changes an SC person goes through after converting to another religion and its implications on the question of including them as SCs.

These will include examining their traditions, customs, social and other forms of discrimination and how and whether they have changed as a result of the conversion.

Source: [ForumIAS](#)