

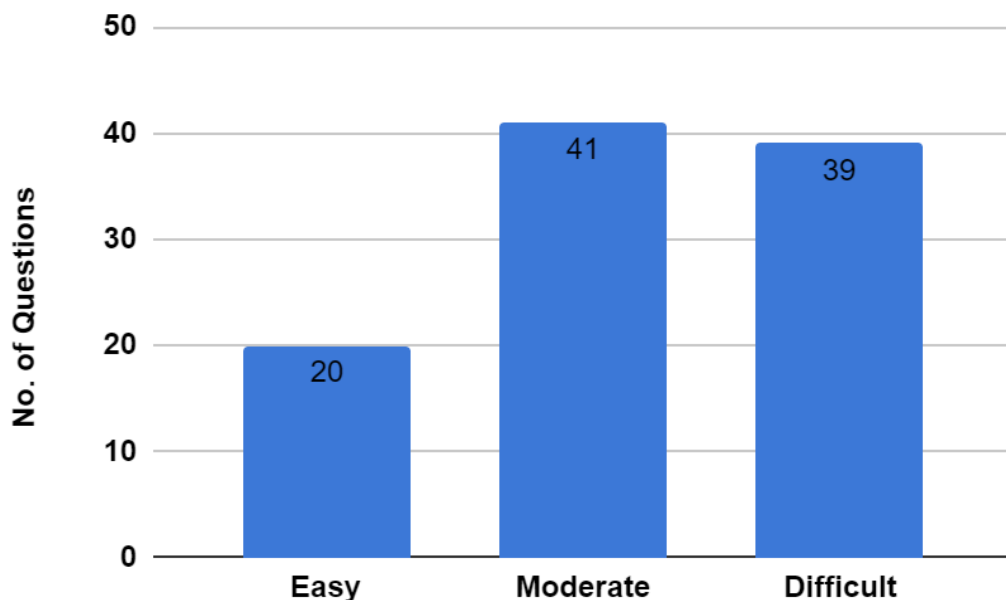


SUPERKALAM'S DIRECT HIT UPSC PRELIMS 2024



Classification based on Difficulty

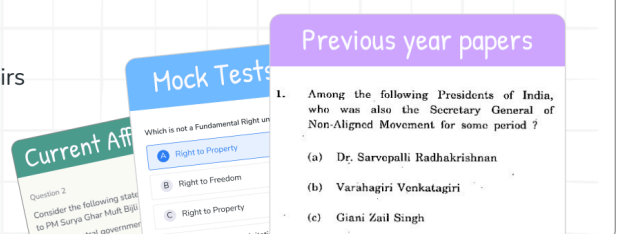
Difficulty	No. of Questions	Remarks
Easy	20	Mostly straightforward questions from fundamental sources, with a low chance of error
Moderate	41	Questions that require applying concepts and connecting them to current affairs. There's a lower chance of making mistakes if logic is applied and the syllabus is revised well.
Difficult	39	Unconventional questions which makes option elimination tricky. 8-10 questions might need to be left unanswered, or else increased chances of making mistakes.



Prelims Test Series with **Unlimited Tests**

24 Mock tests, 14 Year PYQs, Guidance from top Educators, Current Affairs Module and **BONUS** access of SuperKalam for UPSC 2025 🚀

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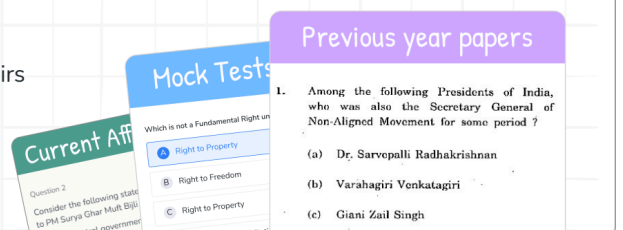
Comparison of questions coming from our Test Series, Class Tests & Mindmaps

Subjects	UPSC Prelims	SuperKalam's Tests
History	7	1
Art & Culture	5	2
Polity	18	12
Economy	12	4
Sci-Tech	11	4
Environment	17	7
Geography	18	7
Miscellaneous	12	6
Total	100	43

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Current Affairs

Mock Tests

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

(a) Dr. Sarvepalli Radhakrishnan
(b) Varahagiri Venkatagiri
(c) Giani Zail Singh

UPSC PRELIMS 2024

Q. With reference to Coriolis force, which of the following statements is/are correct?

1. It increases with an increase in wind velocity.
2. It is maximum at the poles and is absent at the equator.

Select the answer using the code given below :

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

Correct Answer: C

QUESTIONS FROM TEST SERIES

Covered in our Test Series on 3rd Feb 2024

Revised the concept in detail in our Power Revision Classes: [WATCH HERE](#)

Class Notes: [Click Here](#)

Q. Consider the following statements:

1. At the equator, the wind blows parallel to the isobars.
2. Geostrophic winds blow perpendicular to the isobars.
3. The Coriolis force acting on the winds increases from the equator to the poles.

Which of the statements given above is/are correct?

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

Q. With reference to the Himalayan rivers joining the Ganga downstream of Prayagraj from West to East, which one of the following sequences is correct?

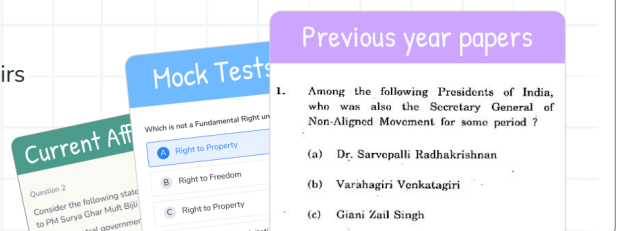
Covered in our Test Series on 7th Jan 2024

Q. Consider the following statements with regard to “Ganga River System ” -

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- A. Ghaghara – Gomati – Gandak – Kosi
- B. Gomati - Ghaghara – Gandak – Kosi
- C. Ghaghara – Gomati – Kosi – Gandak
- D. Gomati - Ghaghara - Kosi - Gandak

Correct Answer: B

- 1. Gomti, Ghaghara, Gandak, Kosi are some left bank tributaries of the Ganga
- 2. The upstream Bhagirathi joins the other stream named Alaknanda at Devprayag to form River Ganga.

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

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

Q. On June 21 every year, which of the following latitude(s) experience(s) a sunlight of more than 12 hours?

- 1. Equator
- 2. Tropic of Cancer
- 3. Tropic of Capricorn
- 4. Arctic Circle

Select the correct answer using the code given below :

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

Correct Answer: D

Covered in our Test Series on 3rd April 2024

Q. Consider the following statements about the Midnight Sun Phenomenon:

- 1. The Midnight Sun is a natural phenomenon that occurs in the summer months in places north of the Arctic Circle or south of the Antarctic Circle, where the sun remains visible at the local midnight.
- 2. During the Midnight Sun period, the sun is visible for a full 24 hours, especially near the solstices.
- 3. Countries like Norway, Sweden, Finland, Russia, and Canada experience the Midnight Sun.

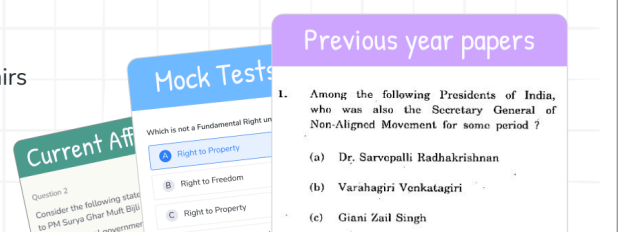
How many of the statements given above are correct?

- A. Only one

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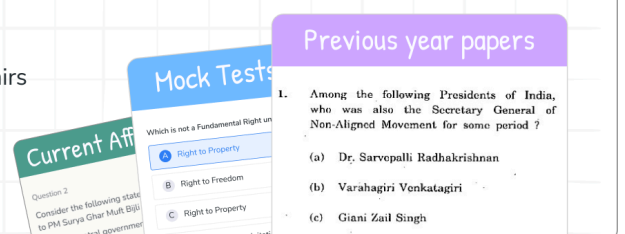


	<p>B. Only two</p> <p>C. All three</p> <p>D. None of the above</p>
<p>Q. Consider the following statements:</p> <p>Statement I: The thickness of the troposphere at the equator is much greater as compared to the poles.</p> <p>Statement II: At the equator, heat is transported to great heights by strong convectional currents.</p> <p>Which one of the following is correct in respect of the above statements?</p> <p>A. Both Statement I and Statement II are correct and Statement II explains Statement I</p> <p>B. Both Statement I and Statement II are correct, but Statement II does not explain Statement I</p> <p>C. Statement I is correct, but Statement II is incorrect</p> <p>D. Statement I is incorrect, but Statement II is correct</p> <p>Correct Answer: A</p>	<p>Covered in our Test Series on 3rd Feb 2024</p> <p>Q. Consider the following statements:</p> <p>Statement I: The air temperature at the tropopause over the equator is less than that at the poles.</p> <p>Statement II: The thickness of the troposphere is greatest at the equator.</p> <p>Which one of the following is correct in respect of the above statements?</p> <p>A. Both Statement I and Statement II are correct and Statement II explains Statement I</p> <p>B. Both Statement I and Statement II are correct, but Statement II does not explain Statement I</p> <p>C. Statement I is correct, but Statement II is incorrect</p> <p>D. Statement I is incorrect, but Statement II is correct</p>
<p>Q. Which of the following is/are correct inference/inferences from isothermal maps in the month of January?</p> <p>1. The isotherms deviate to the north over the ocean and to the south over the continent.</p>	<p>Covered in our Test Series on 30th Mar 2024</p> <p>Q. Consider the following statements about the Gulf Stream:</p>

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2. The presence of cold ocean currents, Gulf Stream and North Atlantic Drift makes the North Atlantic Ocean colder and the isotherms bend towards the north.

Select the answer using the code given below :

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

Correct Answer: A

1. The Gulf Stream is a warm and swift Atlantic ocean current that originates in the Gulf of Mexico.
2. It primarily influences the climate of the east coast of North America from Florida to Newfoundland, and the west coast of Europe.
3. The Gulf Stream is a result of the temperature difference between the Atlantic Ocean and the Gulf of Mexico.
4. It has a significant impact on the weather patterns of the North Atlantic, contributing to milder winters in Western Europe.

How many of the statements given above are correct?

- A. Only one
- B. Only two
- C. Only three
- D. All four

Q. In India, which of the following can trade in Corporate Bonds and Government Securities?

1. Insurance Companies
2. Pension Funds
3. Retail Investors

Select the correct answer using the code given below:

- A. 1 and 2 only

Covered in our Test Series on 7th Jan 2024

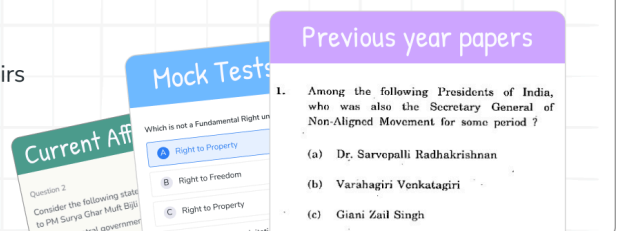
Q. Consider the following statements about Regulations for Corporate Bonds in India:

1. The Securities and Exchange Board of India (SEBI) is the regulatory authority for corporate bonds in India.
2. Corporate bonds in India are always issued at face value.

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

Correct Answer: D

- 3. Corporate bonds in India cannot be traded on stock exchanges.

How many of the above statements are correct?

- A. Only one
- B. Only two
- C. All three
- D. None of the above

Q. Consider the following:

- 1. Exchange-traded funds (ETF)
- 2. Motor vehicles
- 3. Currency swap

Which of the above is/are considered financial instruments?

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

Correct Answer: D

Covered in our Test Series on 3rd April 2024

Q. Consider the following financial instruments:

- 1. Certificate of Deposit (CD)
- 2. Commercial Paper (CP)
- 3. Government Bond
- 4. Treasury Bill (T-Bill)

How many of the above instruments are typically traded in the money market?

- A. Only one
- B. Only two
- C. Only three
- D. All four

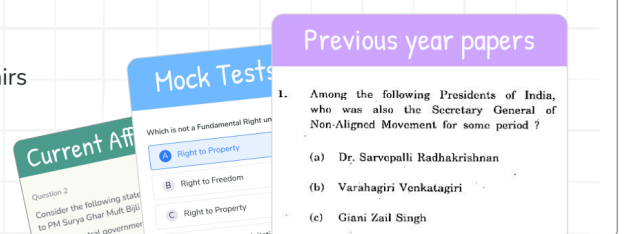
Q. With reference to physical capital in the Indian economy, consider the following pairs:

Covered in our Test Series on 6th March 2024

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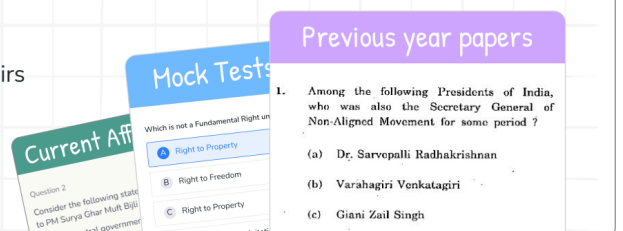


<p>Items</p>	<p>Category</p>	<p>Q. Consider the following:</p>
<p>1. Farmer's plough</p>	<p>Working capital</p>	<p>1. Land</p>
<p>2. Computer</p>	<p>Fixed capital</p>	<p>2. Labour</p>
<p>3. Yarn used by the weaver</p>	<p>Fixed capital</p>	<p>3. Fixed physical capital</p>
<p>4. Petrol</p>	<p>Working capital</p>	<p>4. Working physical capital</p>
<p>How many of the above pairs are correctly matched?</p> <p>A. Only one</p> <p>B. Only two</p> <p>C. Only three</p> <p>D. All four</p> <p>Correct Answer: B</p>		<p>5. Human capital</p> <p>Which of the given factors are the factors of production?</p> <p>A. 1, 2, 4 and 5</p> <p>B. 2, 3 and 4</p> <p>C. 2, 4 and 5</p> <p>D. 1, 2, 3, 4 and 5</p>
<p>Q. Consider the following statements:</p> <p>1. There are no parables in Upanishads.</p> <p>2. Upanishads were composed earlier than the Puranas.</p> <p>Which of the statements given above is/are correct?</p> <p>A. 1 only</p> <p>B. 2 only</p> <p>C. Both 1 and 2</p> <p>D. Neither 1 nor 2</p> <p>Correct Answer: B</p>		<p>Covered in our Test Series on 22 Jan 2024</p> <p>Q. Recently PM gifted first edition print of book 'The Ten Principal Upanishads' written India and Iris scholar in 1937, to president of</p> <p>A. UK</p> <p>B. USA</p> <p>C. Russia</p> <p>D. None</p>

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Q38. Which one of the following was the latest inclusion in the Intangible Cultural Heritage List of UNESCO?

- A. Chhau dance
- B. Durga puja
- C. Garba dance
- D. Kumbh mela

Correct Answer: C

Covered in our Test Series on 3rd April 2024

Q. Consider the following statements on Hoysala temples and its architecture:

1. The Sacred Ensembles of the Hoysala in Karnataka have been added to the United Nations Educational, Scientific and Cultural Organization World Heritage list.
2. This inclusion marks the 42nd UNESCO World Heritage Site in India.
3. Keshava Temple of Somanathapur is a beautiful Trikota Temple dedicated to Lord Krishna in three forms-Janardhana, Keshava and Venugopala.

How many of the above statements is/are correct?

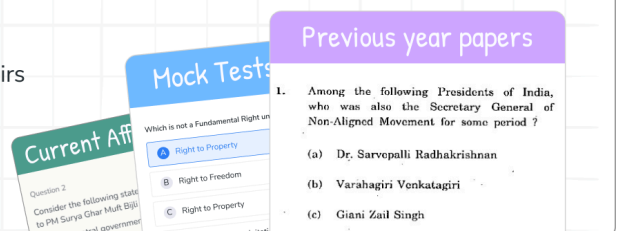
- A. Only one
- B. Only two
- C. All three
- D. None of the above

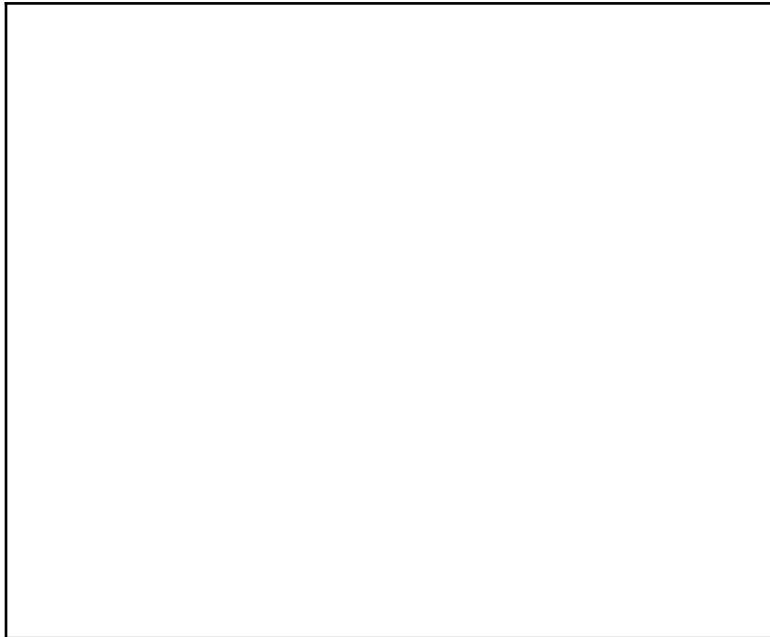
Covered in our The Hindu Analysis

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Ganba → dance from native to the Indian state of Gujarat
 → tradition dance
 → UNESCO's list of Intangible Cultural heritage from India Gujarat

Picture of the day

Traditionally marks a girl's 1st menstrual cycle

Talent on display

folk dance

APC

Theme ↓ based on fight b/w Lord Shiva's wife Parvati & Ganga Maa.

7th cen

ATP

ask@kalam.in

Q. Which of the statements given above is/are correct?

- Under the Ryotwari Settlement of revenue collection, the peasants were exempted from revenue payment in case of bad harvests or natural calamities.
- Under the Permanent Settlement in Bengal, if the Zamindar failed to pay his revenues to the state, on or before the fixed date, he would be removed from his Zamindari.

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

Correct Answer: B

Covered in our Test Series on 24th December

Q. Who among the following was/were associated with the introduction of Ryotwari Settlement in India during the British rule?

- Lord Cornwallis
- Alexander Reed
- Thomas Munro

Select the correct answer using the code given below:

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

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Mock Tests

Which is not a Fundamental Right un

- A. Right to Property
- B. Right to Freedom
- C. Right to Property

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

- (a) Dr. Sarvepalli Radhakrishnan
- (b) Varahagiri Venkatagiri
- (c) Giani Zail Singh

Q. According to the Environmental Protection Agency (EPA), which one of the following is the largest source of sulphur dioxide emissions?

- A. Locomotives using fossil fuels
- B. Ships using fossil fuels
- C. Extraction of metals from ores
- D. Power plants using fossil fuels

Covered in our Test Series on 11th March 2024

Q. Consider the following statements about Criteria Air Pollutants:

1. They are a group of pollutants that are regulated by the United States Environmental Protection Agency (EPA).
2. They include six pollutants: Lead, Carbon Monoxide, Nitrogen Dioxide, Ozone, Particulate Matter, and Sulphur Dioxide.

Which of the above statements are/is correct?

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

Q. Consider the following statements:

Statement-I: The atmosphere is heated more by incoming solar radiation than by terrestrial radiation.
Statement-II: Carbon dioxide and other greenhouse gases in the atmosphere are good absorbers of long wave radiation.

Which one of the following is correct in respect of the above statements?

Covered in our Test Series on 3rd April 2024

Q. Consider the following statements:

- Statement I: The Earth's surface receives energy from the sun in the form of shortwave radiation.
- Statement-II: The Earth's surface loses energy exclusively through longwave radiation emitted back into space.

Which one of the following is correct in respect of the above statements?

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- A. Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Correct Answer: D

- A. Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Q. Which of the following statements about the Ethics Committee in the Lok Sabha are correct?

- Initially it was an ad-hoc Committee.
- Only a Member of the Lok Sabha can make a complaint relating to unethical conduct of a member of the Lok Sabha.
- This Committee cannot take up any matter which is sub-judice.

Select the answer using the code given below :

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

Correct Answer: C

Covered in our Test Series on 24th December 2023 and 7th January 2024

Q. With respect to Ethics committee of Lok Sabha, consider the following statements:

- It was established in Lok Sabha in 2000.
- It became a permanent part of the House in 2015.
- It examines complaints of unethical conduct by members of the Lok Sabha.

How many of the above statements is/are correct?

- A. Only one
- B. Only two
- C. All three
- D. None of the above

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Q. Consider the following statements:

1. Lions do not have a particular breeding season.
2. Unlike most other big cats, cheetahs do not roar.
3. Unlike male lions, male leopards do not proclaim their territory by scent marking.

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

Correct Answer: A

Covered in our The Hindu News Analysis Class

Q. How many Delimitation Commissions have been constituted by the Government of India till December 2023?

- A. One
- B. Two
- C. Three
- D. Four

Correct Answer: D

Class Test on Delimitation Commission

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Q. While any resolution for the removal of the Speaker of the Lok Sabha is under consideration

1. He/She shall not preside.
2. He/She shall not have the right to speak.
3. He/She shall not be entitled to vote on the resolution in the first instance.

Which of the statements given above is/are correct?

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

Correct Answer: A

Covered in our Test Series on 12 April 2024

Q. Consider the following statements:

Statement-I: The Speaker of the Lok Sabha does not have the right to vote in the first instance.

Statement-II: The Speaker's casting vote is used to resolve a deadlock during a motion or bill discussion.

Which one of the following is correct in respect of the above statements?

- A. Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Q. Consider the following statements regarding 'Nari Shakti Vandana Adhiniyam':

1. Provisions will come into effect from the 18th Lok Sabha.
2. This will be in force for 15 years after becoming an Act.
3. There are provisions for the reservation of seats for Scheduled Castes Women within the quota reserved for the Scheduled Castes.

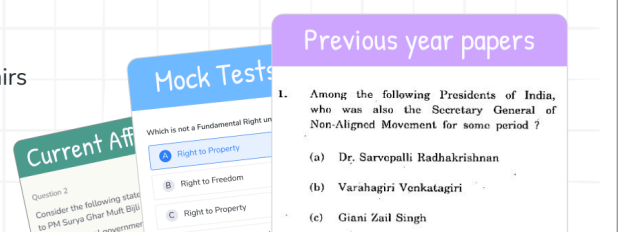
Covered in our Power Wrap Up Classes on Current Affairs: [WATCH HERE](#)

Access class notes here: [CLASS PDF](#)

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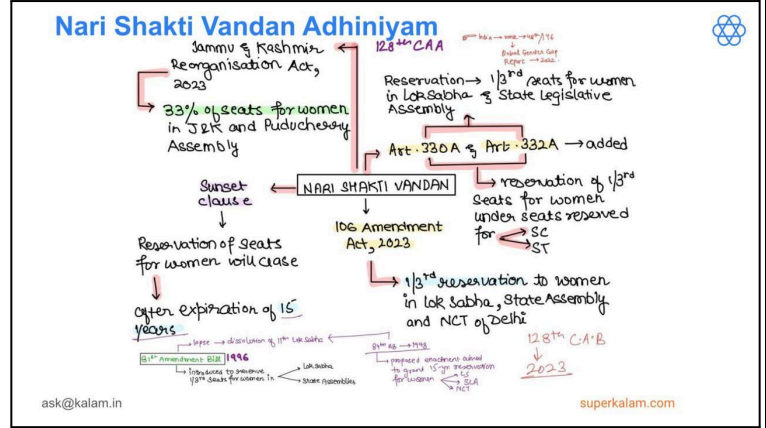
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Which of the statements given above are correct?

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

Correct Answer: C



Q. Under which of the following Articles of the Constitution of India, has the Supreme Court of India placed the Right to Privacy?

- A. Article 15
- B. Article 16
- C. Article 19
- D. Article 21

Correct Answer: D

Class Test on Supreme Court Judgements

Question 1 Indian Polity

Unattempted

Which landmark judgment of the Supreme Court of India expanded the scope of Article 21 of the Constitution to include the right to live with human dignity?

Select the correct option:

- A. Maneka Gandhi vs Union of India
- B. Golaknath vs State of Punjab
- C. Kesavananda Bharati vs State of Kerala
- D. Francis Coralie Mullin vs The Administrator, Union Territory of Delhi

Explanation: In the landmark judgment Maneka Gandhi v. Union of India (1978), Supreme Court held that the right to life and personal liberty under Article 21 is not limited to mere animal existence but includes the right to live with dignity.

Q. Which of the following statements are correct in respect of a Money Bill in the Parliament?

Covered in our Test Series on 15th January 2024

Q. Consider the following statements about the

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Mock Tests

Current Affairs

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period?

- (a) Dr. Sarvepalli Radhakrishnan
- (b) Varahagiri Venkatagiri
- (c) Giani Zail Singh

1. Article 109 mentions special procedure in respect of Money Bills.
2. A Money Bill shall not be introduced in the Council of States.
3. The Rajya Sabha can either approve the Bill or suggest changes but cannot reject it.
4. Amendments to a Money Bill suggested by the Rajya Sabha have to be accepted by the Lok Sabha.

Select the answer using the code given below :

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

Correct Answer: C

procedure for passing Money Bills in the Indian Parliament:

1. A Money Bill can be introduced only in the Lok Sabha.
2. The Rajya Sabha has no power to reject or amend a Money Bill.
3. The President can return a Money Bill for reconsideration of the Parliament.
4. The Speaker of the Lok Sabha has the final power to decide whether a bill is a Money Bill or not.

Which of the above statements is correct?

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

Q. A Writ of Prohibition is an order issued by the Supreme Court or High Courts to :

- A. a government officer prohibiting him from taking a particular action.
- B. the Parliament/Legislative Assembly to pass a law on Prohibition.
- C. the lower court prohibiting continuation of proceedings in a case.
- D. the Government prohibiting it from following an unconstitutional policy.

Class Test on Supreme Court

Question 9 Indian Polity

Unattempted

Which of the following writs is issued by a High Court or the Supreme Court to compel an authority to perform a duty that it is obliged to perform?

Select the correct option:

Mandamus

Certiorari

Prohibition

Quo Warranto

Explanation: Mandamus is a judicial remedy in the form of an order from a court to any government, subordinate court, corporation, or public authority, to do or forbear from doing some specific act which that body is obliged under law to do or refrain from doing. It is used to compel the performance of a public duty.

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Mock Tests

Which is not a Fundamental Right un

Right to Property

Right to Freedom

Right to Property

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

(a) Dr. Sarvepalli Radhakrishnan

(b) Varahagiri Venkatagiri

(c) Giani Zail Singh

Correct Answer: C

Q. With reference to radioisotope thermoelectric generators (RTGs), consider the following statements:

1. RTGs are miniature fission reactors.
2. RTGs are used for powering the onboard systems of spacecrafts.
3. RTGs can use Plutonium-238, which is a by-product of weapons development.

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

Correct Answer: B

Covered in our Full Length Test - 2

Science & Technology

Question 9

Unattempted

Consider the following statements on Nuclear Fusion:

1. Nuclear Fusion is the most powerful reaction in our observable universe, and it is what powers our Sun and other stars.
2. Deuterium-tritium (DT) fusion produces a neutron and a helium nucleus.
3. The energy released through a fusion reaction is much larger than that in chemical reactions.

Which of the above statements is/are incorrect?

A 1 and 3

B 2 and 3

C 1 and 2

D None of the above

Explanation: Nuclear Fusion is the most powerful reaction in our observable universe, and it is what powers our Sun and other stars. However, it wasn't until the 1920s that the physics of nuclear fusion became clear when Arthur Eddington proposed that stars get their energy from the fusion of hydrogen into helium. Deuterium-tritium (DT) fusion produces a neutron and a helium nucleus. Researchers are interested in DT reactions because they produce a lot of energy and take place at lower temperatures than other elements. The energy released through a fusion reaction is much larger than that in chemical reactions because the binding energy that holds the nucleons is far greater than the energy that binds atoms and molecules together through electronic linkages.

Q. With reference to the Indian Parliament, consider the following statements:

1. A bill pending in the Lok Sabha lapses on its dissolution.
2. A bill passed by the Lok Sabha and pending in the Rajya Sabha lapses on the dissolution of the Lok Sabha.

Covered in our Test Series on 3rd February 2024

Q. Which of the following bills do not lapse on the dissolution of the Lok Sabha?

1. A bill pending in the Rajya Sabha but not passed by the Lok Sabha.
2. A bill passed by both Houses but pending assent of the President.

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Mock Tests

Previous year papers

Which is not a Fundamental Right un

Question 2

Consider the following state to PM Surya Char Muft Bijli the central government

Right to Property

Right to Freedom

Right to Property

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

(a) Dr. Sarvepalli Radhakrishnan

(b) Varahagiri Venkatagiri

(c) Giani Zail Singh

3. A bill in regard to which the President of India notified his/her intention to summon the Houses to a joint sitting lapses on the dissolution of the Lok Sabha.

Which of the statements given above is/are correct?

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

Correct Answer: B

3. A bill passed by both Houses but returned by the President for reconsideration of Houses.

Select the correct answer using the code given below -

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

Q. Which one of the following is the exhaust pipe emission from Fuel Cell Electric Vehicles, powered by hydrogen?

- A. Hydrogen peroxide
- B. Hydronium
- C. Oxygen
- D. Water vapour

Correct Answer: D

Q. Recently, the Union Minister of Petroleum & Natural Gas flagged off the country's first Green Hydrogen Fuel Cell Bus in New Delhi. Consider the following statements:

1. The Green Hydrogen Standard for India sets a criterion of 2 kg CO₂ equivalent per kg H₂ as a 12-month average emission threshold.
2. The Ministry of New & Renewable Energy has characterized Green Hydrogen as having a well-to-gate emission that does not exceed 2 kg CO₂ equivalent per kg H₂.

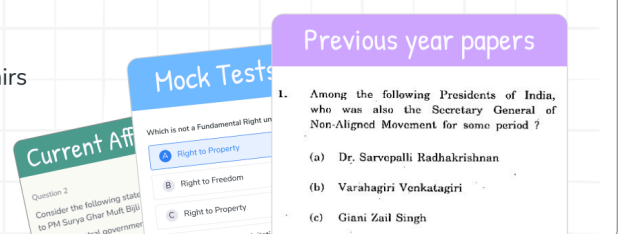
Which of the above statements is/are correct?

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

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Q. Consider the following statements:

Statement-I: Giant stars live much longer than dwarf stars.

Statement-II: Compared to dwarf stars, giant stars have a greater rate of nuclear reactions.

Which one of the following is correct in respect of the above statements?

- A. Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Correct Answer: D

Covered in our Test Series on 3rd Feb 2024

Q. Consider the following statements about the evolution of white dwarfs:

1. White dwarfs are the final evolutionary state of all stars, regardless of their initial mass.
2. White dwarfs are primarily composed of carbon and oxygen, with a thin outer layer of hydrogen and helium.
3. The Chandrasekhar limit is the maximum mass of a stable white dwarf star.
4. White dwarfs can evolve into neutron stars or black holes.

Which of the above statements are correct?

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

Q. In which of the following are hydrogels used?

1. Controlled drug delivery in patients
2. Mobile air-conditioning systems
3. Preparation of industrial lubricants

Select the correct answer using the code given below:

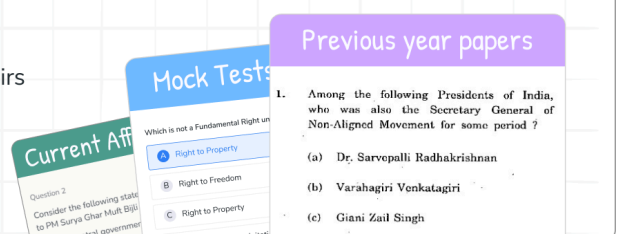
- A. 1 only
- B. 1 and 2 only

Covered in detail in our The Hindu Analysis Class on 13 April 2024

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

Correct Answer: B

GS3

IISc researchers design novel hydrogel to remove microplastics from water

Microplastics
Small pieces of plastic less than 5mm in length
↓
intestinal inflammation
gut microbes
↓
disrupt

The Hindu Bureau BENGALURU
Researchers at the Indian Institute of Science (IISc) have designed a sustainable hydrogel to remove microplastics from water. According to the IISc, microplastics pose a great threat to health as these tiny plastic debris can enter our bodies through the water we drink and increase the risk of illnesses. The hydrogel designed by the researchers has a unique intertwined polymer network that can bind the contaminants and degrade them using UV-light irradiation. Scientists have previously tried using filtering membranes to remove microplastics. However, the membranes can become clogged with these tiny particles, rendering them unsustainable. Instead, the IISc team led by Suryasarathi Bose, Professor at the Department of Materials Engineering, decided to turn to 3D hydrogels. The hydrogel developed by the team consists of three different polymer layers - chitosan, polyvinyl alcohol and polyaniiline - intertwined together, making an interpenetrating polymer network (IPN) architecture. The team infused this matrix with nano-clusters of a material called copper substituted polyoxometalate (Cu-POM). These nano-clusters are catalysts that can use UV light to degrade the microplastics. The combination of the polymers and nano-clusters resulted in a strong hydrogel with the ability to adsorb and degrade large amounts of microplastics. The team found that the hydrogel could remove about 95% and 93% of two types of microplastics in water. The study has been published in *Nanoscale*.

Hydrogel
↳ soft transparent material
↳ absorption
↳ desorption
1960
↳ biological use

safe water: The hydrogel can bind the contaminants and degrade them using ultra violet light irradiation, says the IISc study.

superkalam.com

Covered in our Test Series on 7 Jan 2024

Q. What is the use of hydrogel in agriculture?

- A. Enhancing pesticide effectiveness
- B. Reducing soil fertility
- C. Improving seed germination and root hydration
- D. Inducing plant dormancy

Q. Consider the following statements :

Statement-I : There is instability and worsening security situation in the Sahel region.
Statement-II: There have been military takeovers/coups d'état in several countries of the Sahel region in the recent past.

Which one of the following is correct in respect of the above statements?

Covered in our Test Series on 11 March 2024

Q. Consider the following statements about desertification and identify the correct ones:

1. Desertification is a type of land degradation in which a relatively dry land region becomes increasingly arid, typically losing its bodies of water as well as vegetation and wildlife.
2. The Great Green Wall initiative, aimed at preventing desertification, is being implemented in South America.

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Mock Tests

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

(a) Dr. Sarvepalli Radhakrishnan
(b) Varahagiri Venkatagiri
(c) Giani Zail Singh

Question 2
Consider the following statement to PM Surya Char Muft Biju (SCMB) scheme. Which of the following is not a Fundamental Right under the Indian Constitution?

(A) Right to Property
(B) Right to Freedom
(C) Right to Equality

- A. Both Statement-I and Statement-II are correct and Statement-I Statement-II explains
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Correct Answer: A

- 3. Desertification can be a natural process, but human activities such as deforestation and overgrazing have significantly accelerated it in many parts of the world.
- 4. The Sahel region in Africa is one of the most affected areas by desertification, which has led to food shortages and conflicts over scarce resources.

Which of the statements given above are correct?

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

Q. Which of the following statements about 'Exercise Mitra Shakti-2023' are correct?

- 1. This was a joint military exercise between India and Bangladesh.
- 2. It commenced in Aundh (Pune).
- 3. Joint response during counter-terrorism operations was a goal of this operation.
- 4. Indian Air Force was a part of this exercise.

Select the answer using the code given below :

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

Covered in our Test Series on 22 April 2024

Q. Consider the following pairs of military exercises of India with other countries:

Military Exercise	Country With
Samudra Shakti	Sri Lanka
Yuddh Abhyas	United States
Dharma Guardian	Japan
Mitra Shakti	Indonesia

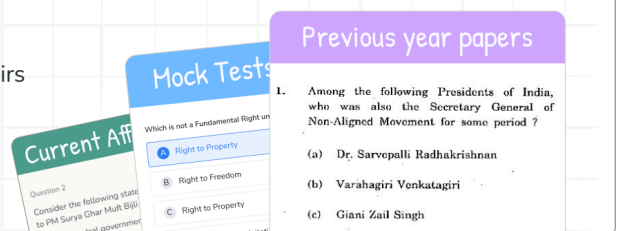
How many of the above players are correctly matched?

- A. Only one

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Correct Answer: D

- B. Only two
- C. Only three
- D. All four

Q.

Country	Reason for being in news
1. Argentina	Worst economic crisis
2. Sudan	War between the country's regular army and paramilitary forces
3. Turkey	Rescinded its membership of NATO

How many of the pairs given above are correctly matched?

- A. Only one pair
- B. Only two pairs
- C. All three pairs
- D. None of the pairs

Correct Answer: B

Covered in our Test Series

Q. Consider the following statement about the North Atlantic Treaty Organisation (NATO):

1. NATO was established in 1949 by the Washington Treaty.
2. Postre and Ireland are part of the European Union but not part of NATO.
3. Finland and Sweden recently joined NATO and became its 31st and 32nd members respectively.

How many of the above-mentioned statements are incorrect

- A. Only one
- B. Only two
- C. All three
- D. None of the above

Q. The total fertility rate in an economy is defined as:

- A. the number of children born per 1000 people in the population in a year.

[Covered in our Daily Prelims Questions: 13th April 2024](#)

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- B. the number of children born to a couple in their lifetime in a given population.
- C. the birth rate minus the death rate.
- D. the average number of live births a woman would have by the end of her child-bearing age.

Correct Answer: D

← Daily News Analysis / 12 Apr '24

Question 3

Social Issues & Schemes

India's declining fertility rate, recently projected by The Lancet, suggests a demographic transition with potential economic benefits. Consider the following statements:

1. TFR in India has drastically decreased from 6.2 in 1950 to below 2 in 2021.
2. This decline is part of a global trend, with the global fertility rate dropping nearly 50% in the past 70 years.
3. The Total Fertility Rate (TFR) represents the average number of children a woman would have in her lifetime given current fertility rates.
4. A TFR of 3.1 signifies replacement-level fertility, where each generation replaces itself.

How many of the above statements is/are correct?

A Only one

B Only two

C Only three

D All four

Q. With reference to the Government of India Act, 1935, consider the following statements:

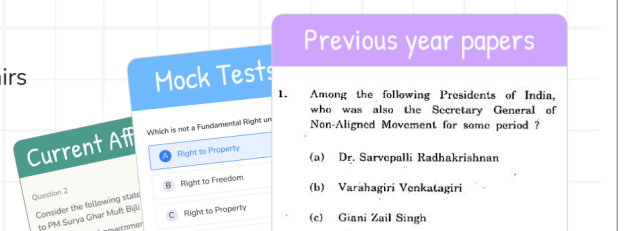
1. It provided for the establishment of an All India Federation based on the union of the British Indian Provinces and Princely States.

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Mock Tests

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

(a) Dr. Sarvepalli Radhakrishnan

(b) Varahagiri Venkatagiri

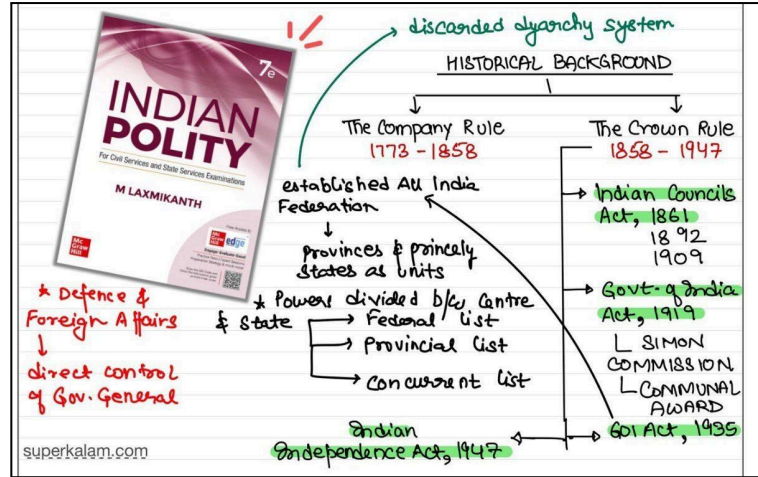
(c) Giani Zail Singh

2. Defence and Foreign Affairs were kept under the control of the federal legislature.

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

Correct Answer: A



Q. Consider the following statements:

Statement-I: The Indian Flying Fox is placed under the vermin category in the Wild Life (Protection) Act, 1972.
Statement II: The Indian Flying Fox feeds on the blood of other animals.

Which one of the following is correct in respect of the above statements?

- A. Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Correct Answer: C

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Q. Consider the following statements :

Statement-I: Many chewing gums found in the market are considered a source of environmental pollution.

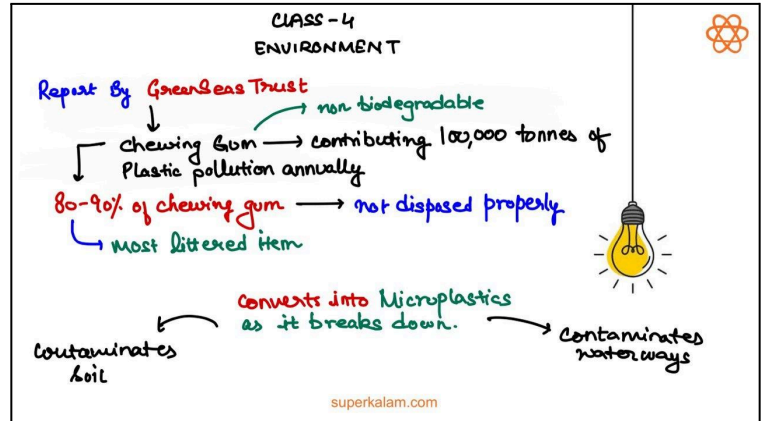
Statement-II: Many chewing gums contain plastic as gum base.

Which one of the following is correct in respect of the above statements?

- A. Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Correct Answer: A

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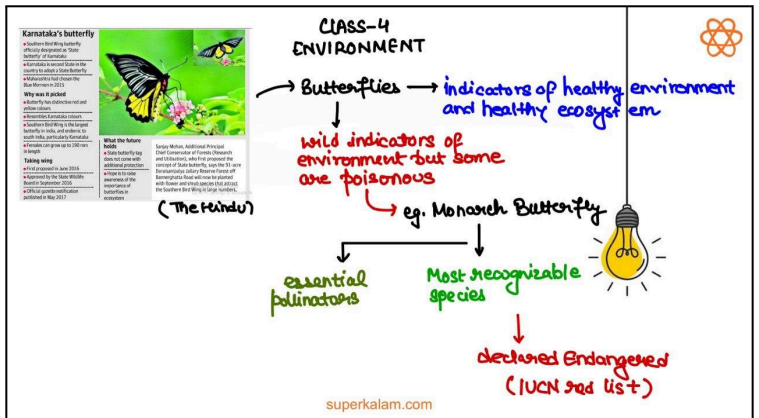
Q. Consider the following:

- 1. Butterflies
- 2. Fish
- 3. Frogs

How many of the above have poisonous species among them?

- A. Only one
- B. Only two
- C. All three
- D. None

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Mock Tests

Question 2
Which is not a Fundamental Right under the Indian Constitution?

(a) Right to Property
(b) Right to Freedom
(c) Right to Equality

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

(a) Dr. Sarvepalli Radhakrishnan
(b) Varahagiri Venkatagiri
(c) Giani Zail Singh

Correct Answer: C

Q. Which of the following statements are correct about the Constitution of India?

1. Powers of the Municipalities are given in Part IX A of the Constitution.
2. Emergency provisions are given in Part XVIII of the Constitution.
3. Provisions related to the amendment of the Constitution are given in Part XX of the Constitutions

Select the answer using the code given below:

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

Correct Answer: D

Q. With reference to Union Budget, consider the following statements :

1. The Union Finance Minister on behalf of the Prime Minister lays the Annual Financial Statement before both the Houses of Parliament.
2. At the Union level, no demand for a grant can be made except on the recommendation of the President of India.

Covered in Class Test: [Click Here](#)

< Test on Panchayati Raj / Solutions

Question 1 Indian Polity

Unattempted

Consider the following statements regarding the process of decentralization in India:

1. The 73rd and 74th Constitutional Amendments in 1992 marked a significant step towards decentralization by empowering rural and urban local bodies.
2. Decentralization in India does not include the transfer of decision-making authority to local governments.
3. The Panchayati Raj Institutions (PRIs) are a three-tier system in rural India that plays a key role in decentralized governance.
4. Financial powers are not devolved to local bodies as part of decentralization in India.

How many of the statements given above are correct?

A Only one

B Only two

C Only three

D All four

Explanation: The 73rd and 74th Constitutional Amendments in 1992 were indeed significant steps towards decentralization in India, empowering rural and urban local bodies respectively. This process includes the transfer of decision-making authority, administrative, and financial powers to local governments. The statement that financial powers are not devolved is incorrect, as decentralization does involve financial devolution to local bodies. Therefore, statements 1 and 3 are correct.

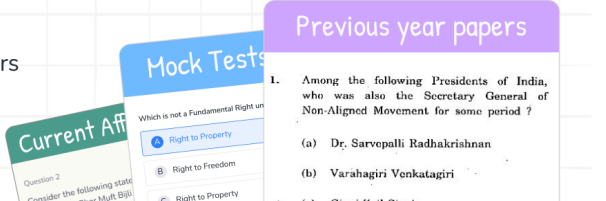
Covered in our Budget Class in detail: [Click Here](#)

Class Notes: [Click Here](#)

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Mock Tests

Previous year papers

Which is not a Fundamental Right un

Question 2

Consider the following state to PM Surya Char Muft Bijli the central government

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period ?

(a) Dr. Sarvepalli Radhakrishnan

(b) Varahagiri Venkatagiri

(c) Giani Zail Singh

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

Correct Answer: B

UNION BUDGET '24

Annual Financial Statement
↓
Tool to manage nation's financial resources

Prepared by Budget Division
↓
Department of Economic Affairs
↓
Ministry of Finance

Helps in Identifying potential eco. risks

superkalam.com

Q. Consider the following statements:

1. It is the Governor of the State who recognizes and declares any community of that State as a Scheduled Tribe.
2. A community declared as a Scheduled Tribe in a State need not be so in another State.

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

Correct Answer: B

Covered in our FOCUS Batch

Base Act

Constitution → Base Act
↓
Art. 342
↓
Community declared as ST in one state
↳ not mandatory to be so in another state

THE CONSTITUTION OF INDIA
CONTENTS
PREAMBLE
PART I
THE UNION AND ITS TERRITORY
ARTICLES
1. Name and territory of the States.
2. Admission or establishment of new States.
[D.A.]
3. States to be associated with the Union - (Optional)
4. Formation of new States and alteration of areas, boundaries or names of existing States.
5. Laws made under article 2 and 3 to provide for the amendment of the States and the Fourth Schedule and supplemental, incidental and consequential matters.
PART II
CITIZENSHIP
6. Citizenship at the commencement of the Constitution.
7. Rights of citizenship of certain persons who have migrated to India from Pakistan.
8. Rights of citizenship of certain migrants to Pakistan.
9. Rights of citizenship of certain persons of Indian origin residing outside India.
10. Persons voluntarily acquiring citizenship of a foreign State not to be citizens.
11. Continuance of the rights of citizenship.
12. Parliament to regulate the right of citizenship by law.

Q. As per Article 368 of the Constitution of India, the Parliament may amend any provision of the Constitution by way of:

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Covered in our Amendment Class: [Click Here](#)

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Mock Tests

Previous year papers

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Which is not a Fundamental Right?

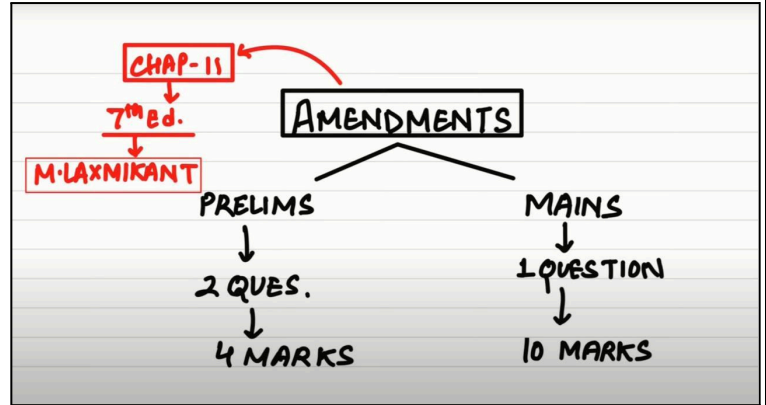
A. Right to Property
B. Right to Freedom
C. Right to Property

1. Addition
2. Variation
3. Repeat

Select the correct answer using the code given below:

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

Correct Answer: D



Q. Recently, the term pumped-storage hydropower is actually and appropriately discussed in the context of which one of the following?

- A. Irrigation of terraced crop fields
- B. Lift irrigation of cereal crops
- C. Long duration energy storage
- D. Rainwater harvesting system

Correct Answer: C

Discussed in The Hindu Analysis Class

Q. Consider the following statements:

Statement-I: Recently, Venezuela has achieved a rapid recovery from its economic crisis and succeeded in preventing its people from fleeing/emigrating to other countries.

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Statement-II: Venezuela has the world's largest oil reserves.

Which one of the following is correct in respect of the above statements?

- A. Both Statement-I and Statement-II are correct and Statement-II explains Statement-I
- B. Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I
- C. Statement-I is correct, but Statement-II is incorrect
- D. Statement-I is incorrect, but Statement-II is correct

Correct Answer: D

Q. Who of the following is the author of the books The India Way and Why Bharat Matters?

- A. Bhupender Yadav
- B. Nalin Mehta
- C. Shashi Tharoor
- D. Subrahmanyam Jaishankar

Correct Answer: D

Covered in our The Hindu News Analysis Class

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Q. Consider the following countries:

1. Finland
2. Germany
3. Norway
4. Russia

How many of the above countries have a border with the North Sea?

- A. Only one
- B. Only two
- C. Only three
- D. All four

Correct Answer: B

Covered in our The Hindu News Analysis Class

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Q. Consider the following:

1. Pyroclastic debris
2. Ash and dust
3. Nitrogen compounds
4. Sulphur compounds

How many of the above are products of volcanic eruptions?

- A. Only one
- B. Only two

Covered in Power Revision Class

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- C. Only three
- D. All four

Correct Answer: D



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Mock Tests

Which is not a Fundamental Right in India?

A. Right to Property

B. Right to Freedom

C. Right to Property

Previous year papers

1. Among the following Presidents of India, who was also the Secretary General of Non-Aligned Movement for some period?

(a) Dr. Sarvepalli Radhakrishnan

(b) Varahagiri Venkatagiri

(c) Giani Zail Singh

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