

**Que-1 With reference to ceramic implants that can regenerate broken bones, consider the following statements**

1- Calcium phosphate ceramics, are in principle an ideal alternative to conventional metals because bone can eventually replace the ceramic and regrow.

2- Calcium phosphate ceramics are substitutes for the bone mineral hydroxyapatite.

3- Applications of such ceramics in medical settings have been limited, because there is insufficient control over the rate of absorption and replacement by bone after implantation.

Which of the following given above is/are correct

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

**Que-2 With reference to National air sport policy 2022 (NASP), recently launched, consider the following statements about**

1- The new policy lays out the vision of making India one of the top sports nations by 2030 by providing a safe, affordable, accessible, enjoyable and sustainable air sports ecosystem in India.

2- Under the new policy, there will be a four-tier governance structure for air sports in India.

3- Released by Ministry of Youth Affairs and Sports.

Which of the following given above is/are correct

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

**Que-3 With reference to Defence Acquisition Council (DAC), consider the following statements about**

1- It is the apex decision making body of the Ministry of Defence.

2- It is chaired by the Defence Minister.

3- The DAC has accorded acceptance of necessity (AoN) for the procurement of next generation corvettes (NGC) at an estimated cost of Rs 96,000 crore.

Which of the following given above is/are correct

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

**Que-4 Consider the following statements about Yankti Kuti Valley**

1- Kuti Valley is a Himalayan valley situated in the Pithoragarh District, Garhwal division of the Uttarakhand state.

2- This formed by the river Kuti Yankti, which is one of the headwaters of the Kali

River that forms the boundary between India and Nepal in this region.

3- This valley is mainly dominated by Byansis, one of the four Bhotiya communities of Kumaon.

Which of the following given above is/are correct

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

**Que-5 Consider the following statements about Central Advisory Board (CAB) on Disability**

1- It is supposed to function as the national-level consultative and advisory body on disability matter.

2- It has a five-year tenure.

3- The panel is meant to “facilitate the continuous evolution of a comprehensive policy for the empowerment of persons with disabilities and the full enjoyment of rights”.

Which of the following given above is/are correct

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

**Que-6 How is a Rajya Sabha MP elected?**

1- Members of the Rajya Sabha are elected through single transferable vote via open ballot.

2- Members of a state’s Legislative Assembly vote in the Rajya Sabha elections in what is called proportional representation with the single transferable vote (STV) system.

3- Each MLA’s vote is counted only once.

Which of the following given above is/are correct

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

**Que-7 Consider the following statements about Rajya Sabha**

1- The Rajya Sabha or the Upper House of Parliament is modeled after the House of Commons in the United Kingdom.

2- The Rajya Sabha currently has 245 members, including 233 elected members and 12 nominated.

3- The Speaker is the chairperson of the Rajya Sabha, which is the final stop before a bill is sent for presidential assent.

Which of the following given above is/are correct

- a) 2 only      b) 1 and 3 only

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

## ANSWER

**Que-8 With reference to Environmental performance index, published recently by the Yale Center for Environmental Law and Policy and the Center for International Earth Science Information Network, Columbia University, consider the following statements**

1- India has been placed at the bottom on a list of 180 countries judged for their environmental performances.

2- Denmark topped the 2022 Environmental Performance Index (EPI), followed by the UK and Finland, which earned high scores for slashing greenhouse gas emissions in recent years.

3- India and US are projected to be the largest and second-largest emitters of greenhouse gases in 2050.

Which of the following given above is/are correct

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

1- (c)

2- (a)

- Released by Ministry of Civil Aviation.
- Air sports, as the name suggests, encompasses various sports activities involving the medium of air. These include sports like air-racing, aerobatics, aeromodelling, hang-gliding, paragliding, paramotoring and skydiving etc.
- The policy will cover the air sports including aerobatics, aeromodelling and model rocketry, amateur-built and experimental aircraft, ballooning, drones, gliding and powered gliding, hang gliding and powered hang gliding, parachuting, paragliding and paramotoring, powered aircraft, rotorcraft, etc.
- Under the new policy, there will be a four-tier governance structure for air sports in India namely; the Air Sports Federation of India (ASFI) as the apex governing body; National associations for individual air sports or a set of air sports, as appropriate Regional or State and Union Territory level units of the national air sports associations, as appropriate; and District-level air sports associations, as appropriate.

3- (a)

- The DAC has accorded acceptance of necessity (AoN) for the procurement of next generation corvettes (NGC) at an estimated cost of Rs 36,000 crore.
- The DAC is the apex decision making body of the Ministry of Defence and is chaired by the Defence Minister. The DAC has accorded acceptance of necessity (AoN) for the procurement of next generation corvettes (NGC) at an estimated cost of Rs 36,000 crore. The AoN is the first step for the procurement procedure.
- These next generation corvettes are part of the Indian Navy's ongoing plan to have a 175-ship Navy. The warships, the NGC, will be versatile platforms for variety of roles like surveillance missions, escort operations, deterrence, surface action group (SAG) operations, search and attack and coastal defence. These NGCs would be constructed based on new in-house design of Indian Navy using latest technology of ship-building.
- The DAC also accorded AoNs for the manufacture of Dornier aircrafts and Su-30 MKI aero-engines by HAL, with focus on enhancing indigenisation, particularly in indigenising aero-engine material. The Dornier's will be

modified for a role in surveillance and intelligence gathering.

4- (d)

- Kuti Valley is a Himalayan valley situated in the Pithoragarh District, Kumaon division of the Uttarakhand state.

5- (b)

- It has a three-year tenure.

6- (c)

- The tenure of a Rajya Sabha member is six years. One-third members retire every second year and are replaced by newly chosen members.
- Each member serves for a term of six years. In case of death, disqualification or resignation, bypolls are held.

7- (a)

- The Rajya Sabha or the Upper House of Parliament is modeled after the House of Lords in the United Kingdom.
- As per the constitutional limit, the Upper House strength cannot exceed 250.
- While 233 members are elected from states and Union Territories (UTs), President of India nominates the remaining 12 from from the fields of

art, literature, science and social services.

- The Vice-President is the chairperson of the Rajya Sabha, which is the final stop before a bill is sent for presidential assent.
- As per the constitution, since the Rajya Sabha is the Council of States, the allocation of seats for Rajya Sabha is made on the basis of the population of each state.

- EPI projections indicate that just four countries -- China, India, the US and Russia -- will account for over 50 per cent of residual global greenhouse gas emissions in 2050 if current trends hold.
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8- (a)

- China and India are projected to be the largest and second-largest emitters of greenhouse gases in 2050.
- Using 40 performance indicators across 11 issue categories, the EPI ranks 180 countries on climate change performance, environmental health and ecosystem vitality.
- These indicators provide a gauge at a national scale of how close the countries are to established environmental policy targets.
- The lowest scores go to India (18.9), Myanmar (19.4), Vietnam (20.1), Bangladesh (23.1) and Pakistan (24.6). Most low-scoring countries are those that have prioritised economic growth over sustainability, or those that are struggling with civil unrest and other crises.