

## General Knowledge

3. The inter-state council was established under Article 263 of the constitution of India through a presidential order in 1990. This council is a recommendatory body with the following duties.

- (a) Investigating and discussing such subjects, in which some or all of the states or the union and one or more of the states have a common interest, as may be brought up before it.
- (b) Making recommendations upon any such subject and in particular recommendations for the better coordination of policy and action with respect to that subject.

The inter-state council is headed by the Prime Minister and Chief Ministers of all states and six Union Ministers of Cabinet are its members.

4. The constitution of India contains the right to freedom given in Articles 19, 20, 21 and 22, with the view of guaranteeing individual rights that were considered vital by the framers of the constitution. Freedom of speech and expression enable an individual to participate in public activities. Reasonable restrictions can be imposed in the interest of public order, security of state, decency or morality.

5. Article 32 of the constitution of India has the right to move the Supreme Court by appropriate proceedings for the enforcement of the rights conferred by this part is guaranteed. The Supreme Court shall have power to issue directions or orders or writs. A person can move for the same to any High Court of the Country.

8. Procedural democracy is a democracy in which the people or citizens of the state have less influence than the traditional liberal democracies. This type of democracy is characterized by voters choosing to elect representatives in free elections.
10. Non-alignment movement had its origin in 1947 Asian Relations Meeting in New Delhi and the 1955 Asian African Conference in Bandung (Indonesia). India also participated in the 1961 Belgrade Conference that officially established the non-alignment movement.
11. Dr. Ram Manohar Lohia wrote his Ph.D thesis paper on the topic of salt Satyagraha Focusing on Gandhi's socioeconomic theory. It was Lohia's words that caste restricts opportunity. He recognized that where caste prevails, opportunity and ability are restricted to ever narrowing circles of the people. To eliminate caste, his aphoristic prescription was, 'Roti and Beti'.
12. The ryotwari system, instituted in some parts of British India, was one of the two main systems used to collect revenues from the cultivators of agricultural land. An official report by John Stuart Mill in 1857 explained the ryotwari land tenure system. The ryotwari system is associated with the name of Sir Thomas Munro, who was appointed Governor of Madras in May 1820.
16. The angle which the tangent to the liquid surface at the point of contact makes with the solid surface inside the liquid is called angle of contact. Those liquids which wet the walls of the container have meniscus concave upwards and their value of angle of contact is less than  $90^\circ$  (also called acute angle). However, those liquids which don't wet the walls of the container (in case of mercury and glass) have meniscus convex upwards and their value of angle of contact is greater than  $90^\circ$  (also called obtuse angle).
17. Simple Harmonic Motion (SHM) is the motion of a simple harmonic oscillator, a periodic motion that is neither driven nor damped. A body in simple harmonic motion experiences a single force which is given by Hooke's law, i.e. the force is directly proportional to the displacement and points in the opposite direction.
21. Basic elements of nuclear fission reactors are listed below
- reactor core for holding fission material or fuel.
  - moderator for slowing fast neutrons.
  - control devices holding neutron absorbers to control rate of fission.
  - monitoring system containing devices and indicators of operation.
  - energy transfer system to take the heat away.
37. The Armed Forces Special Powers Act (AFSPA) was passed on September 11, 1958 by the Parliament of India. It conferred special powers upon armed forces in what the language of the act calls 'disturbed areas' in the state of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura. It was later extended to Jammu and Kashmir as the Armed Forces special powers Act 199- in July, 1990.
38. At the behest of the chief of the army staff, a long term plan was evolved for the development works in Nagaland and in Manipur. Code named 'Operation Good Samaritan', it was set in motion by the Army Development Group (ADG), under the aegis of Headquarters 3 corps in June, 1995.
41. Zakumi 'the leopard' was the official Mascot for the 2010 FIFA World Cup. He is a cheerful and sporty leopard with green hair presented on 22 September 2008.
42. Deodhani dance is performed in Assam on the occasion of worship of Goddess Manasa. This dance performed by females in front of the temple of Goddess Manasa.
43. The Sukhoi PAKFA is a fifth generation jet fighter being developed by Sukhoi (RFL) for the Russian Air force. Sukhoi director Mikhail Yegorov has projected a market for 1000 aircraft over the next four decades, which will be produced in a joint venture with India.
48. 1. Santhal Rebellion - 1856  
2. Indigo Revolt - 1861  
3. Santhals and Fakir Rebellion - 1789  
4. Bhojpur Rebellion - 1899
52. Dudhwa National Park - Uttar Pradesh  
Kanha National Park - Madhya Pradesh  
Indravati National Park - Chhatisgarh  
Bandipur National Park - Karnataka
57. The Labrador current is a cold current in the North Atlantic Ocean which flows from the Arctic Ocean South along the Coast of Labrador and passes around New Foundland continuing south along the East Coast of Nova Scotia. It meets the warm gulf stream at the Grand Banks South East of New Foundland and again north of the outer Banks of North Carolina.
61. The University of Oregon has a rather unique mascot in the Ducks nickname that is affiliate with all of the athletic programs associated with the school. Quarking fans and a seemingly harmless mascot that bears a striking resemblance to the Disney character Donald Duck are not exactly the sorts of things that are normally thought of as striking fear into the hearts of conference opponents.
62. National Mission for Enhanced Energy Efficiency (NMEEE) seeks to upscale efforts to create a market for energy efficiency, which is estimated to be around ₹ 74000 crore. The Mission will create a conducive regulatory and policy regime to foster innovative and sustainable business models to unlock the market. As a result of the implementation of this mission over the next five years, it is estimated that at by 2015, about 23 million tons oil equivalent of fuel saving will be

achieved every year along with an expected avoided capacity addition of over 19000 MW. The consequential Carbon dioxide emission reduction is estimated to be 98.55 million tons annually.

63. A green data centre is repository for the storage, management and dissemination of data in which the mechanical, lighting, electrical and computer systems are designed for maximum energy efficiency and minimum environmental impact. The construction and operation of a green data centre includes advanced technologies and strategies.
64. An Internet Protocol (IP) address is a computer's address on the Internet. IP spoofing allows a computer user to mask his IP or make it appear different from what it actually is. IP spoofing is generally used to do one of two things, conceal the identity of the spoofed computer or make the spoofed computer appear as something other than what it is, while there are legitimate reasons to spoof your own system, in a majority of cases, IP spoofing is used to cover up illegal or unethical practices.
65. Cloud computing is Internet based computing, whereby shared resources, software and information are provided to computers and other devices on demand like the electricity grid. Cloud computing describes a new supplement, consumption and delivery model for IT services based on the Internet and it typically involves over the Internet provision of dynamically scalable and often virtualized resources. It is a by product and consequence of the ease of access to remote computing sites provided by the Internet.
75. The shape of the Earth is very close to that of an oblate spheroid, a sphere flattened along the axis from pole to

pole such that there is a bulge around equator. This bulge results from the rotation of the Earth and the diameter at the equator to be 43 km larger than pole to pole diameter.

76. Glass wool is an insulating material made from glass arranged into a structure similar to wool. Glass wool is produced in rolls or in slabs with different thermal, mechanical properties.
78. Sodium bicarbonate also known as baking soda is a chemical compound with the formula  $\text{NaHCO}_3$ . It is a white solid that is crystalline but often appears as a powder.
79. Ibn Battuta was a Moroccan traveller, who came to India in 1336-37 AD. When Ibn Battuta came to India, Muhammad Bin Tughlaq was the ruler of Northern India. Ibn Battuta was sent to China by the ruler of Delhi.
84. Famous poet of Bengali Rabindranath Tagore surrendered his title of 'Sir' in 1919 to the protest against the massacre at Jallianwalabagh and the imposition of martial law in Punjab.
95. Baltic nations are three countries in Northern Europe, members of the European Union Estonia, Latvia, Lithuania. Between 1918 and 1920 in the after world war I, following centuries of foreign domination the Baltic countries were established as independent nations.
96. The Red sea is one of the most saline bodies of water in the world due to high evaporation. The average salinity of Red sea is 40 per thousand.