

1. Consider the following statements regarding The Forest (Conservation) Act, 1980:
 1. State Government, without the approval of Central Government, cannot make any order directing forest land to be used for non-forest use.
 2. Non-forest use does not include clearing of any forest land for the cultivation of tea, coffee.
 Which of the statements given above is/are NOT CORRECT?
 - a) 1 only
 - b) 2 only**
 - c) Both 1 and 2
 - d) Neither 1 nor 2
2. Consider the following statements regarding The Indian Forest Act, 1927:
 1. State Government may constitute any waste-land as a reserve forest despite the private ownership of land.
 2. The control of all rivers and their banks as regards the floating of timber is vested in the State Government.
 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
3. Consider the following statements regarding The Environment (Protection) Act, 1986:
 1. The Central Government under this Act has the power to direct the closure of any Industry.
 2. No civil court shall have jurisdiction to entertain any suit in respect of any order or issued by any officer in pursuance of any power conferred by this Act.
 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
4. Consider the following statements regarding Water (Prevention and Control of Pollution) Act, 1974:
 1. State Government after consultation with the State Board can restrict the application of this Act only to particular areas.
 2. State Government in certain circumstances can supersede the State Board.
 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
5. Consider the following statements:
 1. No person shall, without the previous consent of the State Board, establish or operate any industrial plant in an air pollution control area.
 2. Where an offence under this Act has been committed by a company, every person who, at the time the offence was committed, was directly in charge of, and was responsible to the company for the conduct of the business of the company shall be deemed to be guilty of the offence.
 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
6. Consider the following statements with respect to National Green Tribunal (NGT):
 1. The tribunal has Original as well as Appellate jurisdiction
 2. It is not bound by procedure laid down under the Civil Procedure Code, 1908, but guided by the principles of Natural Justice.
 Which of the above statements is/are correct?
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2**
 - d) Neither 1 nor 2

7. Consider the following statements:
1. The rules of Eco- Sensitive Zones are declared under Wildlife Protection Act, 1972
 2. Flying over protected areas in an aircraft or hot air balloon is prohibited
 3. Felling of trees and Rainwater harvesting are regulated around ESZ
- Which of the statements given above is/are NOT CORRECT?
- a) 1 only
 - b) 1 and 3 only**
 - c) 2 and 3 only
 - d) 2 only
8. Consider the following statements about Basel Convention:
1. It is an international treaty that was designed to reduce the movements of hazardous waste between nations.
 2. It specifically focuses on to prevent transfer of hazardous waste from developed to less developed countries (LDCs).
 3. It also addresses the movement of radioactive waste between different nations.
- Which of the statements given above is/are correct?
- a) 1 and 2 only**
 - b) 1 and 3 only
 - c) 2 and 3 only
 - d) 1, 2 and 3
9. The Energy Conservation Building Code (ECBC) was developed by an Expert Committee, set up by India's Bureau of Energy Efficiency. It provides design norms for which of the following?
1. Building envelope, including thermal performance requirements for walls, roofs, and windows.
 2. Lighting system, including daylighting, and lamps and luminaire performance requirements.
 3. HVAC system, including energy performance of chillers and air distribution systems.
 4. Water heating and pumping systems, including requirements for solar hot-water systems.
- Select the correct answer using the code given below.
- a) 1 and 2 only
 - b) 2 and 3 only
 - c) 1, 3 and 4 only
 - d) 1, 2, 3 and 4**
10. Consider the following statements about Convention on Long-Range Transboundary Air Pollution, often abbreviated as Air Pollution or CLRTAP.
1. It is implemented by UNEP.
 2. India is party to this convention.
- Which of the above statements is/are correct?
- a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2**
11. Consider the following statements:
1. Institute of Nano Science & Technology (INST) is an autonomous institute of the Department of Science and Technology (DST).
 2. INST has developed a nanotechnology-based industry-friendly and low-cost method for the production of antiepileptic drug 'Rufinamide'.
- Which of the statements given above is/are NOT CORRECT?
- a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2**
12. Consider the following statements regarding ICONSAT (International Conference on Nano Science and Technology):
1. ICONSAT is a biennial international conference.
 2. ICONSAT is held under the aegis of International Association of Nanotechnology (IANT).
- 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
13. Consider the following statements:
1. Nanotechnology is the development and use of techniques to study physical phenomena and develop new devices and material structures in the physical size range of 1-10 nanometres (nm).
 2. 1 nanometre is equal to one millionth of a meter.
- 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
14. Consider the following statements Indian Nanoelectronics Users Programme (INUP):
1. Indian Nanoelectronics Users Programme (INUP) is an initiative by Ministry of Science and Technology.
 2. INUP is being implemented at Centre of Excellence in Nanoelectronics (CEN) at IISc and IIT Bombay.
- Which of the statements given above is/are NOT CORRECT?
- a) 1 only
b) 2 only
c) Both 1 and 2
d) Neither 1 nor 2
15. Which of the following organizations has developed a Nano-technology based disinfectant spray 'ANANYA'?
- a) Council of Scientific and Industrial Research (CSIR).
 - b) Institute of Nano Science & Technology (INST).
 - c) Defence Institute of Advanced Technology (DIAT).**
 - d) Indian Institute of Science (IISc)
16. Environment nanotechnology involves use of nanoscale material for addressing environmental concerns. Consider the following statements.
1. NanoCO₂ harvester which can suck CO₂ from the atmosphere and convert it into methanol can be used as vehicular fuel.
 2. The magnetically charged nanoparticles have been proved potent to remove heavy metals and dyes from the water bodies.
 3. Due to nanoparticles' ability of long persistence, they may raise concerns such as bio-magnification.
- Which of the above statements is/are correct?
- a) 1 and 2 only
b) 1 and 3 only
c) 1 only
d) 1, 2 and 3
17. Which of the following correctly defines BRABO:
- a) India's first industrial robot**
 - b) India's first nanotechnology based computer
 - c) India's first solar technology park
 - d) India's first operating system
18. Consider the following statements about Carbon Nano Tubes.
1. Carbon nanotubes (CNTs) are an isotope of carbon.
 2. Carbon Nanotubes are also known as Carbon fibers.
 3. CNT metal matrix composites have excellent electrical properties and are used as reinforcement to metals in order to enhance their electrical properties.
- Which of the above statements is/are correct?
- a) 1 and 3 only
b) 2 and 3 only
c) 3 only
d) 1, 2 and 3
19. The most common water-based antifreeze solutions used in automobile engines are mixtures of:
- a) Ethylene and Water

- b) Propylene and Water
c) Ethylene glycol and Water
 d) Ethanol and Water
20. Process of endoscopy is used to see the internal organs. Which of the following phenomenon is responsible for working of endoscopy?
 a) Reflection
b) Total Internal reflection
 c) Scattering
 d) Diffraction
21. Consider the following statements about the state of Arunachal Pradesh:
 1. The state shares international borders with China and Myanmar only.
 2. It was formed out of Assam with the 55th amendment to the Indian Constitution.
 3. Gayal is the state animal of Arunachal Pradesh.
 Which of the statements given above is/are not correct?
 a) 1 and 2 only
 b) 2 and 3 only
c) 1 only
 d) 1, 2 and 3
22. Consider the following pairs:

Pass	Location/Link
1. Nathu La	Sikkim
2. Rohtang Pass	Uttarakhand
3. Lipu Lekh Pass	Himachal Pradesh
4. Bom di La	Arunachal Pradesh

 Which of the above pairs are correctly matched?
 a) 1, 3 and 4 only
b) 1 and 4 only
 c) 3 and 4 only
 d) 1 and 3 only
23. Consider the following statements about Sambhar Lake:
 1. It is the largest inland saltwater lake of India.
 2. It is a wetland of international importance.
 3. The lake receives water mainly from Ghaggar and Banas rivers.
 Which of the statements given above is/are correct?
a) 1 and 2 only
 b) 2 only
 c) 3 only
 d) 1, 2 and 3
24. With reference to the Nurturing Neighborhoods Challenge, consider the following statements:
 1. It focuses on shaping cities for young children and their families.
 2. It is launched by the Ministry of Housing and Urban Affairs in association with the World Bank.
 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
25. With reference to Indian Anti-tank Guided Missile, consider the following statements:
 1. Helina and Dhruvastra are Anti-tank guided missiles for the Indian Airforce and Army respectively.
 2. DRDO has developed anti guided NAG Missiles under the Project 75I.
 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