

1. A material is said to exhibit superconductivity when:
 - (a) It is able to conduct electric current with practically zero resistance.
 - (b) The resistance decreases with increase in temperature.
 - (c) The resistance decreases with increase in pressure.
 - (d) The light is produced but no energy is lost due to heating.
2. Consider the following statements:
 1. Gravitational redshift is the stretching of light by the gravity of a very large object like a super-massive black hole.
 2. Gravitational lensing is the bending of light by by the gravity of a very large object like a super-massive black hole.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
3. Recently, a new Ebola virus has been found in bats in which of the following countries, two years after the end of an outbreak that killed over 11,000 across West Africa?
 - (a) Guinea
 - (b) Liberia
 - (c) Senegal
 - (d) Sierra Leone
4. Consider the following statements:
 1. As per constitutional provisions, the total number of seats for the Schedule Tribes should be in proportion to their population.
 2. As per the Delimitation Act, 2002, the number of seats in an Assembly of any State can only be readjusted on the basis of the first census conducted after 2026.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
5. In which of the following cases the Supreme Court of India had declared that “the State cannot cite concerns about a hostile audience in curbing freedom of expression?”
 - (a) K.M. Nanavati vs. State of Maharashtra
 - (b) Kesavananda Bharti vs. State of Kerala
 - (c) Vishakha and Others vs. State of Rajasthan
 - (d) S. Rangarajan vs. P. Jagjivan Ram
6. Consider the following statements about the Energy Conservation Building Code 2017 (ECBC 2017):
 1. It has been developed by with technical support from United States Agency for International Development (USAID).
 2. It prescribes the energy performance standards for new residential and commercial buildings to be constructed across India.
 3. In order for a building to be considered ECBC-compliant, it would need to demonstrate minimum energy savings of 25%.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) All of the above

12. Which among the following sanctions are imposed as a result of a State Sponsor of Terrorism designation by the U.S.?

1. A ban on arms-related exports and sales
2. Controls over exports of dual-use items
3. Prohibitions on economic assistance

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) All of the above

13. Recently, which of the following countries has offered logistical support to Indian Navy?

- (a) Vietnam
- (b) Thailand
- (c) Japan
- (d) Singapore

14. Consider the following statements regarding the Supreme Court judgments related to road safety:

1. Each State and Union Territory must announce a Road Safety Action Plan by March 2018.
2. A District Road Safety Committee headed by the Collector should be in place in each State before January 31, 2018.

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

15. Consider the following statements:

1. E-way bill is an electronic way bill for movement of goods which can be generated on the GSTN (common portal).
2. A 'movement' of goods of more than Rs 50,000 in value cannot be made by a registered person without an e-way bill.
3. E-way bill will also be allowed to be generated or cancelled through SMS.

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) All of the above

16. Consider the following statements:

1. Storm surge is an abnormal rise of water generated by a storm, over and above the predicted astronomical tides.
2. Storm surge is produced by water being pushed toward the shore by the force of the winds moving cyclonically around the storm.
3. The impact on surge of the low pressure associated with intense storms is more in comparison to the water being forced toward the shore by the wind.

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) All of the above

