

UPSC PRE 2017 (18 JUNE 2017)**1. Consider the following statements:**

1. In tropical regions, Zika virus disease is transmitted by the same mosquito that transmits dengue.
2. Sexual transmission of Zika virus disease is possible.

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

ANS – C

2. The terms ‘Event Horizon’, ‘Singularity’, ‘String Theory’ and ‘Standard Model’ are sometimes seen in the news in the context of

- (a) Observation and understanding of the Universe
- (b) Study of the solar and the lunar eclipses
- (c) Placing satellites in the orbit of the Earth
- (d) Origin and evolution of living organisms on the Earth

ANS – A

3. With reference to agriculture in India, how can the technique of ‘genome sequencing’, often seen in the news, be used in the immediate future?

1. Genome sequencing can be used to identify genetic markers for disease resistance and drought tolerance in various crop plants.
2. This technique helps in reducing the time required to develop new varieties of crop plants.
3. It can be used to decipher the host-pathogen relationships in crops.

Select the correct answer using the code given below:

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

ANS – D

4. Organic Light Emitting Diodes (OLEDs) are used to create digital display in many devices. What are the advantages of OLED displays over Liquid Crystal displays?

1. OLED displays can be fabricated on flexible plastic substrates.
2. Roll-up displays embedded in clothing can be made using OLEDs.
3. Transparent displays are possible using OLEDs.

Select the correct answer using the code given below

- (a) 1 and 3 only ,(b) 2 only ,(c) 1, 2 and 3
(d) None of the above statements is correct

ANS – C

5. What is the application of Somatic Cell Nuclear Transfer Technology?

- (a) Production of biolarvicides ,(b) Manufacture of biodegradable plastics ,(c) Reproductive cloning of animals
- (d) Production of organisms free of diseases

ANS – C

6. In India, it is legally mandatory for which of the following to report on cyber security incidents?

1. Service providers ,2. Data centres ,3. Body corporate

Select the correct answer using the code given below:

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

ANS – D

7. What is the purpose of ‘evolved Laser Interferometer Space Antenna (eLISA)’ project?

- (a) To detect neutrinos ,(b) To detect gravitational waves ,(c) To detect the effectiveness of missile defence system ,(d) To study the effect of solar flares on our communication systems

ANS – B