

1. It consists of a network of stratospheric balloons designed to bring Internet connectivity to rural and remote communities worldwide.
2. It is a project under NASA.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**19.** Which of the following statements is/are *incorrect*?

1. The National Internet Exchange of India (NIXI) is a non-profit organization which has been working for spreading internet technology to the citizens of India.
2. Recently, the NIXI has announced that it will offer a free IDN (Internationalized Domain Name) in any of their preferred 22 official Indian languages along with every IN domain

Select the correct option using the codes given below:

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**20.** With reference to the immersive technologies, consider the following statements:

1. Virtual reality immerses users in a fully artificial digital environment.
2. In Augmented Reality, physical and digital objects co-exist and interact in real time.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**21.** Consider the following statements with reference to Nanotechnology:

1. It involves science and engineering of objects in the range of only 1 to 10 nanometer.

2. An atomic force microscope is used to generate images of nanoscale details on a physical surface.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

**22.** Which of the following are the application of Nanotechnology in food processing sector?

1. Contamination Sensor
2. Antimicrobial Packaging
3. Green Packaging
4. Tracing Brand Protection

Select the correct answer using the code given below:

- (a) 1, 2 and 4 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

**23.** Which one of the following statements is *incorrect* with reference to Nano Mission in India?

- (a) It is a capacity-building program for the development of Nanotechnology in India.
- (b) It involves funding of basic research by individual scientists.
- (c) It involves facility development for technologies like Optical Tweezers, Atomic Force Microscope (AFM).
- (d) None of the above.

**24.** Bandicoot Robot is built by:

- (a) HSC, Bangalore
- (b) Kerala based startup Gen Robotics
- (c) New Delhi Municipal Corporation
- (d) IIT Kanpur

**25.** Consider the following statements with reference to Buckyball:

1. They are composed of carbon atoms linked to three other carbon atoms by covalent bonds.