

Q: Consider the following statement regarding microplastics:

1. These are small plastic pieces broken down under physical, chemical or biological action.
2. These are tiny materials less than 5 mm in diameter.
3. Microplastics cannot enter into blood cells of the human body

Choose the correct option from the codes given below:

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

Ans: a

Explanation:

- The plastic wastes that accumulate in environment are broken down into smaller fragments and particles under physical, chemical or biological action, gradually forming microplastics (MPs).
- The MPs, tiny materials less than 5 mm in diameter, are regarded as a major source of plastic pollution in the environment.
- They are called microplastics and it cannot be seen with the naked eye.
- There are reports that suggest that the MPs can enter into blood cells of the human body, and can cause organ toxicity and dysfunctional metabolic activities, resulting in carcinogenic disease.

Q: Recently Chinese scientists came up with a new concept of robot fish. Consider the following statement:

1. These robotic fish are not biocompatible.
2. These fishes are able to absorb pollutants.
3. These fish are made from polyurethane.

Choose the correct option from the codes given below:

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

Ans: b

Explanation:

- Robotic fish can swim up to 2.76 body lengths per second, faster than most artificial soft robots.
- These fishes are able to absorb pollutants and recover themselves even when it is damaged.
- These black robot fishes left in water can still be controlled by the scientists from outside to avoid crashing into other fishes or ships for that matter with the irradiated light feature.
- It is made keeping in mind the safety of other fishes: If it is accidentally eaten by other fish, it can be digested without any harm as it is made from polyurethane, which is also biocompatible.
- The fish is able to absorb pollutants and recover itself even when it is damaged.

Q: Consider the following destination:

1. Park City
2. Opera House
3. Trans Bhutan Trail

Which among the following destination is included in the TIME Magazine for 2022:

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

Ans: c

Explanation:

- The “God’s own country” Kerala and Ahmedabad city have been listed by TIME magazine as two of the “**50 extraordinary destinations to explore**” in its list of the world’s greatest places of 2022.
- The list also includes Ras Al Khaimah, UAE; Park City, Utah; Seoul; Great Barrier Reef, Australia; The Arctic; Valencia, Spain; Trans Bhutan Trail, Bhutan; International Space Station; Bogota; Lower Zambezi National Park, Zambia; Istanbul and Kigali, Rwanda.

Q: Consider the following statement:

1. World Trade Organisation released global Gender Gap Index for 2022.
2. Iceland was the only economy to achieved full gender parity.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: d

Explanation:

- Recently, the Global Gender Gap Index for 2022 was released by the World Economic Forum (WEF).
- Although no country achieved full gender parity, the top 10 economies closed at least 80% of their gender gaps, with Iceland (90.8%) leading the global ranking.
- Iceland was the only economy to have closed more than 90% of its gender gap.

Q: Consider the following statement:

1. Preliminary assessment of juveniles is to be done who aged between 16 and 18, involved in serious crimes.
2. It is not necessary for the board who conduct assessment to have child psychologist.

Choose the correct option from the codes given below:

- a) 1 Only
- b) 2 Only
- c) 1 and 2
- d) None of the above

Ans: a

Explanation:

- Section 15 of the Juvenile Justice (Care and Protection of Children) Act of 2015 requires a “preliminary assessment” to be done of the mental and physical capacity of juveniles, aged between 16 and 18, who are involved in serious crimes.
- The assessment is meant to gauge a child’s ability to understand the consequences of the offence and the circumstances in which he or she allegedly committed the offence.
- According to Supreme Court, the Board which conducts the assessment of the child should have at least one child psychologist.
- It should further take the assistance of experienced psychologists or psycho-social workers.