

Q: Consider the following statement:

1. India recently organize Interpol annual conference and UN Anti-Terrorism conference.
2. This two conference was earlier organized in Paris and Melbourne.
3. Japan is set to host the 'No Money for Terror' conference.

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:

- After the meeting of INTERPOL and the UN Counter-Terrorism Committee, now India is set to host the 'No Money for Terror' conference.
- To demonstrate solidarity with peace-loving nations and help build a bridge for continued cooperation in combating the financing of terrorism, India held two global events in October - the INTERPOL Annual General Meeting in Delhi and hosted a special session of UN Anti-Terrorism Committee in Mumbai and Delhi.
- The Home Ministry has said that the aim of this conference is to take forward the discussions related to combating the financing of terrorism in the previous two conferences organised by the international community in Paris (2018) and Melbourne (2019).

Q: Consider the following statement:

1. Collectively, G20 members account for less than 40% of emissions.
2. The key tipping points are the Greenland ice sheet and West Antarctic ice sheet.
3. The latest Sixth Assessment Report (SAR) of the IPCC, states that of biodiversity loss, Arctic ice loss and threat to coastal settlements.

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:

- The report also points out that global annual emissions during 2021 at 52.8 Gigatonnes (GtCO₂e), represents a slight increase compared to 2019, the pre-COVID year, and that the outlook for 2030 is not bright.
- Collectively, G20 members account for 75% of emissions, although it is the richer countries that are responsible for accumulated emissions since the industrial revolution.
- The key tipping points are the potential Greenland ice sheet collapse, West Antarctic ice sheet collapse, thawing of the boreal permafrost, and tropical coral reef die offs, all of which are expected to happen at 1.5°C.
- Tipping points represent moments that cascade into irreversible changes, with a domino effect on other elements such as monsoons and heat waves.
- The latest Sixth Assessment Report (SAR) of the IPCC, with high confidence in its conclusions for the near term (until 2040), says that biodiversity loss, Arctic ice loss, threat to coastal settlements and infrastructure will all be experienced, while conflicts, migration of affected people and urban challenges to energy and water access could also arise.

Q: Consider the following statement regarding personalized cell therapy:

1. The human immune system has specific receptors on immune cells that can specifically recognise cancer cells.
2. The immune receptors are used to redirect immune cells to recognise cancer using CRISPR gene editing.

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: c

Explanation:

- The human immune system has specific receptors on immune cells that can specifically recognise cancer cells and differentiate them from normal cells.
- These are different for every patient, so finding an efficient way to isolate them and insert them back into immune cells to generate a personalised cell therapy to treat cancer is key to making the approach feasible on a large scale.
- The researchers found an efficient way to isolate these immune receptors from patient's own blood.
- After isolation, the immune receptors are used to redirect immune cells to recognise cancer using CRISPR gene editing.

Q: The Global Dashboard for Vaccine Equity is an effort of

- a) United Nations Development Programme (UNDP)
- b) World Health Organization (WHO)
- c) University of Oxford
- d) All the above

Ans: d

Explanation:

- The Global Dashboard for Vaccine Equity is a joint effort by the United Nations Development Programme (UNDP), the World Health Organization (WHO) and the University of Oxford with cooperation across the UN system.
- The Global Dashboard for Vaccine Equity combines the latest data on the global roll-out of COVID-19 vaccines with the “most recent socio-economic information to illustrate why accelerating vaccine equity is not only critical to saving lives but also to driving a faster and fairer recovery from the pandemic with benefits for all.”
- It provides new, actionable insights and possibilities for policy makers to dive into the implications of vaccine inequity for socio-economic recovery, jobs and welfare.

Q: Consider the following statement:

1. Methane Alert and Response System (MARS) was launched at the 27th Conference of Parties (COP27).
2. MARS is a part of global efforts to slow climate change by tackling the global warming gas.
3. Carbon dioxide is an 80 times more potent greenhouse gas than methane.

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:

- Recently, the Methane Alert and Response System (MARS) was launched at the 27th Conference of Parties (COP27) to the United Nations Framework Convention on Climate Change in Sharm El-Sheikh, Egypt.
- It will now help governments detect methane emissions and tackle them.
- MARS is a part of global efforts to slow climate change by tackling the global warming gas.
- The data-to-action platform was set up as part of the UN Environment Programme's (UNEP) International Methane Emissions Observatory (IMEO) strategy to get policy-relevant data into the right hands for emissions mitigation.
- Methane is an 80 times more potent greenhouse gas than carbon dioxide. It accounts for a small portion of human-induced greenhouse gas emissions compared to carbon dioxide.

