Current Affairs MCQ
- With Explanation -

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26 December 2019
1. Special Report on Oceans and Cryosphere in a Changing Climate (SROCC) is prepared by
   a) Intergovernmental Panel on Climate Change (IPCC)
   b) United Nations Framework Convention on Climate Change (UNFCCC)
   c) Germanwatch
   d) UN Environment
Solution: a) The Intergovernmental Panel on Climate Change’s (IPCC) Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC) was approved at the IPCC’s 51st Session (IPCC-51) in September 2019 in Monaco. The report is the third in the series of three Special Reports in the current Sixth Assessment Report (AR6) cycle, which began in 2015 and will be completed in 2022. The first was the Special Report on Global Warming of 1.5 °C, while the second was the Special Report on Climate Change and Land (SRCCL).
2. Consider the following statements regarding Formation of a New Country.

1. There is no law barring regions from declaring independence.
2. A region’s quest for nationhood mainly depends on how many countries and international organisations it manages to convince to recognise it as a country.
3. The right of “self-determination” is not included in the UN charter.

Which of the above statements is/are correct?

a) 1, 3
b) 2, 3
c) 1, 2
d) 1 only
Solution: c)

How does a territory become a new country?
There is no straightforward rule. Beyond a few set requirements, a region’s quest for nationhood mainly depends on how many countries and international organisations it manages to convince to recognise it as a country. The biggest sanction of nationhood is the United Nations recognising a territory as a country.
3. Bougainville island, recently in news is part of
   a) Sunda Islands
   b) Islands on the Great Barrier Reef
   c) Solomon Islands
   d) Marshall Islands
Solution: c)

Bougainville island is the largest of the Solomon Islands archipelago.
4. Consider the following statements regarding hydrogen fuel cell:

1. Fuel cell electric vehicles (FCEV) use hydrogen, and an oxidant to create electricity by an electrochemical process.
2. Like a battery-electricity vehicle, fuel cell electric vehicles (FCEV) can also store energy.
3. Hydrogen fuel cells produce much smaller quantities of greenhouse gases.

Which of the above statements is/are correct?

a) 1, 2
b) 2, 3
c) 1, 3
d) 1, 2, 3
Solution: c)
Supreme Court has asked government to look into the feasibility of hydrogen-based tech to deal with vehicular air pollution in capital.

At the heart of the fuel cell electric vehicles (FCEV) is a device that uses a source of fuel, such as hydrogen, and an oxidant to create electricity by an electrochemical process. Put simply, the fuel cell combines hydrogen and oxygen to generate an electric current, water being the only byproduct. Like conventional batteries under the bonnets of automobiles, hydrogen fuel cells too convert chemical energy into electrical energy.
5. Which of the following constitutes highest human source of Methane?

a) Livestock Farming
b) Fossil fuel production and use
c) Biomass burning
d) Rice agriculture
Solution: b)
There are both natural and human sources of methane emissions. The main natural sources include wetlands, termites and the oceans. Natural sources create 36% of methane emissions. Human sources include landfills and livestock farming. But the most important source being the production, transportation and use of fossil fuels, Human-related sources create the majority of methane emissions, accounting for 64% of the total. Methane levels have more than doubled over the last 150 years. This is because of human activities like fossil fuel use and intensive farming.
6) “Zero Day Vulnerability” sometimes seen in the news recently is associated with which of the following?

a. Cyber Attacks  
b. Drinking Water Crisis  
c. Aids Control Programme  
d. Production and Distribution mismatches
Answer: a

Cyber security experts have recently found a zero-day vulnerability in Windows, allowing attackers to gain higher privileges on the target machine and dodging protection mechanisms in the Google Chrome browser.

The newly discovered exploit was used in the malicious Wizard Opium operation.

A zero-day exploit is a cyber attack that occurs on the same day a weakness is discovered in software.

At that point, it is exploited before a fix becomes available from its creator.

Zero-day vulnerabilities are basically bugs in software, which leaves the doors open for cyber criminals to break into the system.
7) AIS-155 sometimes seen in the news recently is associated with which of the following?

a. Aviation Safety Systems
b. Motor Vehicle Standards
c. Agriculture Information System
d. None of the above
To enhance vehicle safety, the Ministry of Road Transport & Highways has recently amended the Central Motor Vehicle Rules, 1989, thereby allowing motor vehicles and their parts, components, assemblies and sub-assemblies to be affixed with permanent and nearly invisible microdots. As per the new notification, manufacturers who are affixing microdot identifiers in the motor vehicles and their parts, components, assemblies, sub-assemblies shall conform to Automotive Industry Standards (AIS)-155 as amended from time to time.
8) Consider the following statements with respect to Microdot Technology:

1. It involves spraying the body and parts of a vehicle with microscopic dots.
2. These dots are permanent and easily visible to the naked eye.
3. It helps to check vehicle theft and use of fake spare parts.

Which of the statement(s) given above is/are incorrect?

a. 2 only
b. 1 and 2 only
c. 1 and 3 only
d. 1, 2 and 3
Answer: a

Microdot technology involves spraying the body and parts of a vehicle – or any other machine – with microscopic dots. The permanent and nearly invisible microdots can be read physically with a microscope and identified with an ultra violet light source.

Use of this technology helps to check vehicle theft and use of fake spare parts.

To enhance vehicle safety, the Ministry of Road Transport & Highways has recently amended the Central Motor Vehicle Rules, 1989, thereby allowing motor vehicles and their parts, components, assemblies and sub-assemblies to be affixed with permanent and nearly invisible microdots.
9) Consider the following statements with respect to a currency ‘Eco’ which was in news recently:
1. It is a newly announced common currency of the Gulf countries.
2. The currency will be pegged to the US dollar.
Which of the statement(s) given above is/are correct?

a. 1 only
b. 2 only
c. Both 1 and 2
d. Neither 1 nor 2
Eight West African countries have announced a new common currency "Eco" to end French dominance from the region. These 8 countries are, Mali, Niger, Senegal, Benin, Togo, Burkina Faso, Guinea-Bissau, and Ivory Coast. The French-backed currency ‘CFA Franc’ was established in 1945 and initially pegged to the French franc but has been linked to the euro for about two decades. Former French colonies Benin, Burkina Faso, Ivory Coast, Mali, Niger, Senegal and Togo still use the currency.
10) Consider the following statements with respect to, Galapagos Islands:

1. The Galapagos Islands are part of the country of Ecuador.
2. It is a United Nations World Heritage Site and it is one of the most active hot spots of the world.

Which of the statement(s) given above is/are correct?

a. 1 only
b. 2 only
c. Both 1 and 2
d. Neither 1 nor 2
Ecuador declared a state of emergency after a barge carrying nearly 2,300 liters of diesel fuel sank at the Galapagos Islands. The Galapagos, which are part of Ecuador, is a United Nations World Heritage Site. It is one of the globe's most fragile ecosystems and active hot spots of the world.
Thank You

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