

Que-1 With reference to Chief Election Commissioner, consider the following statements

- 1- Appointed by the president.
- 2- To remove half of the Lok Sabha and the Rajya Sabha need to present and vote against him for disorderly conduct or improper actions.
- 3- This power of the Election Commission of India to conduct free and fair elections to the national and state legislatures and of President and Vice-President, derived from the Article 324 of the Constitution of India.

Which of the following given above is/are correct

- a) 1 only b) 1 and 3 only
c) 1, 2 and 3 d) 2 and 3 only
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Que-2 What are the Protected Mobility Vehicles (PMVs) that the Army wants to purchase?

- 1- The PMV is essentially a wheeled armoured personnel carrier.
- 2- It provides protection to the soldiers travelling inside the vehicle from mine blasts and sudden attack by small arms.
- 3- India still had no capability of producing PMVs.

Which of the following given above is/are correct

- a) 1 and 2 only b) 1 and 3 only
c) 1, 2 and 3 d) 2 only
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Que-3 With reference to minority communities at a national level, consider the following statements

- 1- Section 2(f) of the National Commission for Minority Educational Institutions or NCMEI Act 2004, says "minority," for the purpose of this Act, means a community notified as such by the Central Government."
- 2- In 2005, Centre notified five communities — Muslims, Christians, Sikhs, Buddhists and Parsis — as minorities at the national level.
- 3- In 2014, government notified followers of Jainism as a minority community, making them the sixth on the national list.

Which of the following given above is/are correct

- a) 1 only b) 1 and 3 only
c) 1, 2 and 3 d) 3 only
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Que-4 Consider the following statements about India Hypertension Control Initiative (IHCI)

1- Hypertension is defined as having systolic blood pressure level greater than or equal to 120 mmHg or diastolic blood pressure level greater than or equal to 70 mmHg.

2- India has committed to a "25 by 25" goal, it includes reducing the prevalence of high blood pressure by 25% by 2025.

3- The programme was launched in November 2017.

Which of the following given above is/are correct

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

Que-5 Prevalence of hypertension, according to the latest edition of the National Family Health Survey (NFHS)

1- Northern States have a higher prevalence of hypertension than the national average.

2- 21.3% of women and 24% of men aged above 15 have hypertension in the country.

3- About one-fourth of women and men aged 40 to 49 years have hypertension.

Which of the following given above is/are correct

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

Que-6 With reference to Macolin Convention, consider the following statements

1- The Council of Europe Convention on the Manipulation of Sports Competitions.

2- This is a multilateral treaty that aims to prevent, detect, and punish match fixing in sport.

3- It came into force on September 1, 2019, and has been signed by 132 countries and ratified by seventy five.

Which of the following given above is/are correct

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

Que-7 A recent report by the International Food Policy Research Institute (IFPRI) on climate change and food systems. According to report

- 1- India's food production could drop 16% by 2030 due to climate change.
- 2- The number of those at risk for hunger could increase 23% by 2030 due to climate change.
- 3- Climate change will also impact the average calorie consumption of Indians.

Which of the following given above is/are correct

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

Que-8 Consider the following statements about Einstein's general theory of relativity

- 1- This is the geometric theory of gravitation published by Albert Einstein in 1916 and is the current description of gravitation in modern physics.
- 2- Special relativity argued that space and time are inextricably connected, but that theory didn't acknowledge the existence of gravity.

Which of the following given above is/are correct

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

ANSWER

- 1- (b)
 - To remove two-thirds of the Lok Sabha and the Rajya Sabha need to present and vote against him for disorderly conduct or improper actions.
- 2- (a)
 - The PMVs must have ballistic protection and should be able to protect the vehicle from grenade and mine blasts. It should have a maximum speed of 90 km on road and 40 km per hour on cross country terrain. They should be able to operate in temperature range of 40 degree centigrade to minus 15 degree in high-altitude areas.
 - India has the capability of producing PMVs. In April this year, the Tata Advanced Systems Limited (TASL) handed over the first of such Infantry Protected Mobility Vehicles (IPMVs) to the then Chief of Army Staff, Gen MM Naravane. The TASL is now the first private sector company in the country to produce such wheeled armoured personnel carriers and has developed the IPMV in collaboration with the Defence Research and Development Organisation (DRDO).
- 3- (c)

- Section 2(f) of the National Commission for Minority Educational Institutions or NCMEI Act 2004, says “minority,” for the purpose of this Act, means a community notified as such by the Central Government.”
 - Section 2(c) of the of National Commission for Minorities (NCM) Act, 1992 also gives the Centre similar powers.
- 4- (d)
- Hypertension is defined as having systolic blood pressure level greater than or equal to 140 mmHg or diastolic blood pressure level greater than or equal to 90 mmHg.
 - India has committed to a "25 by 25" goal, which aims to reduce premature mortality due to non-communicable diseases (NCDs) by 25% by 2025. One of the nine voluntary targets includes reducing the prevalence of high blood pressure by 25% by 2025.
 - The programme was launched in November 2017. In the first year, IHCI covered 26 districts across five States — Punjab, Kerala, Madhya Pradesh, Telangana, and Maharashtra. By December 2020, IHCI was expanded to 52 districts across ten States — Andhra Pradesh (1), Chhattisgarh (2), Karnataka (2), Kerala (4), Madhya Pradesh (6), Maharashtra (13), Punjab (5), Tamil Nadu (1), Telangana (13) and West Bengal (5).
- 5- (d)
- Southern States have a higher prevalence of hypertension than the national average, according to the latest edition of the National Family Health Survey. While 21.3% of women and 24% of men aged above 15 have hypertension in the country, the prevalence is the highest in Kerala where 32.8% men and 30.9% women have been diagnosed with hypertension.
 - Kerala is followed by Telangana where the prevalence is 31.4% in men and 26.1% in women.
 - About one-fourth of women and men aged 40 to 49 years have hypertension. Even at an earlier age, one in eight women and more than one in five men aged 30 to 39 years have hypertension. The prevalence of hypertension is higher among Sikhs (37% for men and 31% for women), Jains (30% for men and 25% for women), and Christians (29% for men and 26% for women) than the rest.
- 6- (a)
- It came into force on September 1, 2019, and has been signed by 32 countries and ratified by seven.

7- (a)

- Climate change will not impact the average calorie consumption of Indians and this is projected to remain roughly the same at 2,600 kcal per capita per day by 2030 even in a climate change scenario.
- These projections are part of a model that was used to evaluate the impact of climate change on aggregate food production, food consumption (kcal per person per day), net trade of major food commodity groups, and the population at risk of going hungry. IMPACT, as the model is called, simulates national and international agricultural markets. It was developed with inputs from scientists from the Consortium of International Agricultural Research Centers (CGIAR) and other leading global economic modeling efforts.

8- (c)

- Scientists from the Event Horizon Telescope (EHT) facility, a collaboration of over 300 researchers, revealed the first image of the black hole at the centre of the Milky Way in press conferences held around the world. This image of the black hole referred to as Sagittarius A* (SgrA*) gave further support to the idea that the compact object at the centre of our galaxy is indeed a black hole. This

strengthens Einstein's general theory of relativity.

- In 2019, the Event Horizon Telescope made history by releasing the first ever image of a black hole M87* – the black hole at the centre of a galaxy Messier 87, which is a supergiant elliptic galaxy.