

INDIAN POLITY

1. Consider the following statements:

1. The Constitution of India defines its 'Basic structure' in terms of federalism, secularism, fundamental rights and democracy
2. The Constitution of India provides for 'judicial review' to safeguard the citizens' liberties and to preserve the ideals on which the Constitution is based

Which of the statements given above is/are correct?

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

2. With reference to the provisions contained in Part IV of the Constitution of India, which of the following statements is/are correct?

1. They shall be enforceable by courts.
2. They shall not be enforceable by any court.
3. The principles laid down in this part are to influence the making of laws by the State.

Select the correct answer using the code given below:

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

3. Consider the following statements :

1. According to the Constitution of India a person who is eligible to vote can be made a minister in a State for six months' even if he/she is not a member of the Legislature of that State.
2. According to the Representation of People Act, 1951, a person convicted of a criminal offence and sentenced to imprisonment for five years is permanently disqualified from contesting an election even after his release from prison.

Which of the statements given above is/are correct?

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

4. Consider the following statements :

1. The President of India can summon a session of the Parliament at such place as he/she thinks fit.
2. The Constitution of India provides for three sessions of the Parliament in a year, but it is not mandatory to conduct all three sessions.
3. There is no minimum number of days that the Parliament is required to meet in a year.

Which of the statements given above is/are correct?

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

5. With reference to the funds under Members of Parliament Local Area Development Scheme (MPLADS), which of the following statements are correct?
1. MPLADS funds must be used to create durable assets like physical infrastructure for health, education, etc.
 2. A specified portion of each MP's fund must benefit SC/ST populations
 3. MPLADS funds are sanctioned on yearly basis and the unused funds cannot be carried forward to the next year.
 4. The district authority must inspect at least 10% of all works under implementation every year.

Select the correct answer using the code given below :

- a) 1 and 2 only
 - b) 3 and 4 only
 - c) 1, 2 and 3 only
 - d) 1, 2 and 4 only**
6. Other than the Fundamental Rights, which of the following parts of the Constitution of India reflect/reflects the principles and provisions of the Universal Declaration of Human Rights (1948)?
1. Preamble
 2. Directive Principles of State Policy
 3. Fundamental Duties

Select the correct answer using the code given below :

- a) 1 and 2 only
 - b) 2 only
 - c) 1 and 3 only
 - d) 1, 2 and 3**
7. In India, Legal Services Authorities provide free legal services to which of the following type of citizens?
1. Person with an annual income of less than Rs. 1,00,000
 2. Transgender with an annual income of less than Rs. 2,00,000
 3. Member of Other Backward Classes (OBC) with an annual income of less than Rs. 3,00,000
 4. All Senior Citizens

Select the correct answer using the code given below :

- a) 1 and 2 only**
 - b) 3 and 4 only
 - c) 2 and 3 only
 - d) 1 and 4 only
8. A constitutional government by definition is a
- a) Government by legislature
 - b) Popular government
 - c) Multi-party government
 - d) Limited government**
9. The Preamble to the Constitution of India is
- a) A part of the Constitution but has no legal effect
 - b) Not a part of the Constitution and has no legal effect either
 - c) A part of the Constitution and has the same legal effect as any other part

d) A part of the Constitution but has no legal effect independently of other parts

10. A Parliamentary System of Government is one in which;

- a) All political parties in the Parliament are represented in the Government
- b) The Government is responsible to the Parliament and can be removed by it**
- c) The Government is elected by the people and can be removed by them
- d) The Government is chosen by the Parliament but cannot be removed by it before completion of a fixed term

SCIENCE & TECHNOLOGY

1. With reference to Carbon Nanotubes, consider the following statements:

- 1. They can be used as carriers of drugs and antigens in the human body.
- 2. They can be made into artificial blood capillaries for an injured part of human body.
- 3. They can be used in biochemical sensors.
- 4. Carbon nanotubes are biodegradable.

Which of the statements given above are correct?

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

2. Consider the following statements:

- 1. Genetic changes can be introduced in the cells that produce eggs or sperms of a prospective parent.
- 2. A person's genome can be edited before birth at the early embryonic stage.
- 3. Human induced pluripotent stem cells can be injected into the embryo of a pig.

Which of the statements given above is/are correct?

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

3. What is the importance of using Pneumococcal Conjugate Vaccines in India?

- 1. These vaccines are effective against pneumonia as well as meningitis and sepsis.
- 2. Dependence on antibiotics that are not effective against drug-resistant bacteria can be reduced.
- 3. These vaccines have no side effects and cause no allergic reactions.

Select the correct answer using the code given below:

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

4. Which of the following statements are correct regarding the general difference between plant and animal cells?

- 1. Plant cells have cellulose cell walls whilst animal cells do not.

2. Plant cells do not have plasma membrane unlike animal cells which do
3. Mature plant cell has one large vacuole whilst animal cell has many small vacuoles.

Select the correct answer using the code given below:

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

5. With the present state of development, Artificial Intelligence can effectively do which of the following?

1. Bring down electricity consumption in industrial units
2. Create meaningful short stories and songs
3. Disease diagnosis
4. Text-to-Speech Conversion
5. Wireless transmission of electrical energy

Select the correct answer using the code given below:

- a) 1, 2, 3 and 5 only
- b) 1, 3 and 4 only
- c) 2, 4 and 5 only
- d) 1, 2, 3, 4 and 5**

6. With reference to Visible Light Communication (VLC) technology, which of the following statements are correct?

1. VLC uses electromagnetic spectrum wavelengths 375 to 780 nm
2. VLC is known as long-range optical wireless communication.
3. VLC can transmit large amounts of data faster than Bluetooth.
4. VLC has no electromagnetic interference.

Select the correct answer using the code given below:

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

7. With reference to "Blockchain Technology", consider the following statements:

1. It is a public ledger that everyone can inspect, but which no single user controls.
2. The structure and design of blockchain is such that all the data in it are about cryptocurrency only.
3. Applications that depend on basic features of blockchain can be developed without anybody's permission.

Which of the statements given above is/are correct?

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

8. With reference to solar water pumps consider the following statements:

1. Solar can be used for running surface pumps and not for submersible pumps.
2. Solar power can be used for running centrifugal pumps and not the ones with piston.

Which of the statements given above is/are correct?

- a) 1 only

- b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 and 2**
9. Steel slag can be the material for which of the following?
- 1. construction of base road
 - 2. Improvement of agricultural soil
 - 3. Production of cement
- Select the correct answer using the code given below:
- a) 1 and 2 only
 - b) 2 and 3 only
 - c) 1 and 3 only
 - d) 1, 2 and 3**
10. In India, why are some nuclear reactors kept under “IAEA Safeguards” while other are not?
- a) Some use uranium and other use thorium
 - b) Some use imported uranium and others use domestic supplies**
 - c) Some are operated by foreign enterprises and others are operated by domestic enterprises
 - d) Some are state-owned and others are privately-owned

CURRENT AFFAIRS

1. Consider the following statements regarding UN-General Assembly.
- 1. UN-General Assembly is the deliberative, policymaking and representative organ of the UN.
 - 2. It elects the non-permanent members of the UN Security Council.
 - 3. Each sovereign state gets one vote and permanent members enjoy Veto powers.
 - 4. All the decisions at the General Assembly must be approved by two-thirds majority of Member States.

Which of the above statements is/are correct?

- a) **1, 2**
 - b) 1, 3, 4
 - c) 1, 2, 3
 - d) 1, 2, 3, 4
2. India is not a member of which of the following organization/agency of World Bank Group?
- a) Multilateral Investment Guarantee Agency
 - b) International Development Association
 - c) International Centre for Settlement of Investment Disputes**
 - d) International Finance Corporation
3. Consider the following statements.
- 1. Judicial review is considered a basic structure of the constitution.
 - 2. The term ‘untouchability’ has been defined in Untouchability (Offences) Act, 1955
 - 3. Article 11 declares that all laws that are inconsistent with or in derogation of any of the fundamental rights shall be void.

Which of the above statements is/are correct?

- a) 2, 3
- b) 1, 2**

c) **1 only**

d) 1, 3

4. Consider the following statements regarding Li-Fi Technology.

1. Li-Fi is a wireless technology that makes use of High frequency radio waves to transmit data at terabits per second speeds.

2. Li-Fi can work underwater, where Wi-Fi fails completely.

Which of the above statements is/are incorrect?

(a) **1 only**

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

5. Consider the following statements regarding derecho, recently seen in news.

1. Derecho is associated with a “band of rapidly moving showers or thunderstorms”.

2. Being a cold-weather phenomenon, a derecho generally occurs during winter time.

3. They occur only across central and eastern parts of the United States.

Which of the above statements is/are correct?

a) **1 only**

b) 1, 2

c) 2, 3

d) 1, 3



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