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SIMPLIFYING IAS EXAM PREPARATION

# INSTA STATIC QUIZ

## DECEMBER 2021

## Table of Contents

1. POLITY .....2

2. GEOGRAPHY .....6

3. ENVIRONMENT .....9

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## 1. Polity

1) Consider the following statements regarding Regulating Act of 1773.

1. It was the first step taken by the British Government to control and regulate the affairs of the East India Company in India.
2. It provided for the establishment of a Supreme Court at Bombay presidency.
3. It designated the Governor of Bengal as the 'Governor-General of India' and vested in him major executive powers.

Which of the above statements is/are correct?

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

2) Consider the following statements regarding Charter Act of 1833.

1. It ended the activities of the East India Company as a commercial body, which became a purely administrative body.
2. It provided for reservation of Indians in the covenanted civil services.

Which of the above statements is/are correct?

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

3) A law member was added to Governor-General's Council, under which of the following Acts?

- a) Pitt's India, 1784
- b) Charter Act, 1813
- c) Charter Act, 1833
- d) Charter Act, 1853

4) Consider the following statements.

1. The idea of a constituent assembly for India was first put forward by Jawaharlal Nehru
2. The Constituent assembly was constituted in 1943 after the approval of the Cripps Proposals.

Which of the above statements is/are correct?

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

5) Consider the following statements regarding 'Objectives resolution'.

1. The resolution laid down the fundamentals and philosophy of the constitutional structure.
2. This Resolution was unanimously adopted by the Constituent Assembly.
3. It missed out on the safeguards for minorities, backward and tribal areas.

Which of the above statements is/are correct?

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

6) Consider the following statements.

1. Article 341 of the Constitution provides certain privileges and concessions to the members of Scheduled Castes.
2. President alone is vested with the power to include or exclude any entry in the Scheduled Castes (SC) list.
3. Reservation is provided for Scheduled Castes both in the Lok Sabha and Rajya Sabha.

Which of the above statements is/are incorrect?

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

7) Consider the following statements.

1. Article 256 of the Constitution obligates the State government to ensure implementation of the laws made by Parliament.
2. The refusal to enforce the laws made by Parliament even after the Centre issues directions would empower the President to impose President's Rule in those States under Articles 356 and 365.
3. *S.R. Bommai v. Union of India* is a significant case on Indian federalism.

Which of the above statements is/are correct?

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

8) Consider the following statements regarding the functions of the Law Commission of India.

1. Take all such measures as may be necessary to harness law and the legal process in the service of the poor.

2. Suggest such legislations as might be necessary to implement the Directive Principles and to attain the objectives set out in the Preamble of the Constitution.

3. Identify laws which are no longer needed or relevant and can be immediately repealed.

4. Consider the requests for providing research to any foreign countries as may be referred to it by the Government through Ministry of Law and Justice.

Which of the above statements is/are correct?

- a) 1, 2, 3
- b) 1, 3, 4
- c) 2, 3, 4
- d) 1, 2, 3, 4

9) Consider the following statements regarding the power of the Speaker of the Lok Sabha with respect to the suspension of a member of the house.

1. In order to ensure that proceedings are conducted in the proper manner, the Speaker of the Lok Sabha is empowered to force a Member to withdraw from the House for the remaining part of the day, or to place him/her under suspension.

2. The Speaker has the authority for the revocation of suspension.

3. Similar function in Rajya Sabha is carried out by the Deputy Chairman of the Rajya Sabha.

Which of the above statements is/are incorrect?

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

10) Consider the following statements regarding Inter-State Council.

1. The Inter-State Council is a permanent constitutional body set up by a presidential order.

2. It was formed based on the recommendation of Sarkaria Commission.

3. It is headed by Union Home Minister.

Which of the above statements is/are correct?

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

11) Which of these acts, for the first time, provided for the association of Indians with the executive Councils of the Viceroy and introduced the system of communal representation?

- a) Indian Councils Act of 1909
- b) Government of India Act of 1919
- c) Government of India Act 1935

d) Councils Act 1891

12) Consider the following statements.

1. The Government of India (GoI) Act of 1935 provided for a three-fold enumeration, viz., federal, provincial and concurrent subjects for legislation.

2. In the GoI Act 1935, residuary powers were given to the Central legislature.

Which of the above statements is/are correct?

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

13) Consider the following statements regarding Government of India Act of 1919.

1. It introduced, for the first time, bicameralism and direct elections in the country.

2. It relaxed the central control over the provinces by demarcating and separating the central and provincial subjects.

3. It separated, for the first time, provincial budgets from the Central budget and authorised the provincial legislatures to enact their budgets.

Which of the above statement is/are correct?

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

14) Consider the following statements regarding Constituent assembly.

1. The assembly had representation from both British India and princely states.

2. The system of proportional representation was adopted in the election of assembly.

3. The Assembly included important ministers of the British Cabinet as ex-officio members.

Which of the above statements is/are correct?

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

15) Consider the following statements.

1. With the commencement of the Constitution, all the acts passed during the British Era was repealed.

2. All the parts of the constitution was enforced on August 1947.

Which of the above statements is/are incorrect?

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

16) Consider the following statements regarding the key features of Indian Federalism?

1. The existence and authority of each tier of government is constitutionally guaranteed.
2. Division of powers between State and Centre cannot be arbitrarily manipulated by the Central government alone.

Which of the above statements is/are correct?

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

17) Which of these is against the ethos of Indian democracy and constitution?

- a) Proportional Representation
- b) Separation of powers between different government agencies
- c) Religious intolerance
- d) Scientific interpretation of Indian traditions

18) The major features of parliamentary government in India is/are?

1. Separation of powers between the legislative and executive organs.
2. Membership of the ministers in the legislature
3. Collective responsibility of the executive to the legislature

Select the correct answer code:

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

19) The Parliament cannot amend these provisions which form the 'basic structure' of the Constitution, that include:

1. Freedom and dignity of the individual
2. Principle of equality
3. Effective access to justice
4. Principle of reasonableness

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 2, 4
- c) 1, 2, 4

d) 1, 2, 3, 4

20) If one can relate the Indian constitution to the following, the closest could be?

- a) Socio-economic register
- b) Academic work
- c) Rulebook
- d) Dictionary

21) The Indian model of Secularism would stand violated if

1. The state supports or facilitates religious activities.
2. The state participates in religious reforms

Select the correct answer code:

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

22) The notion of 'Freedom', in a society, implies

1. Absence of external constraints
2. Conditions in which people can develop their talents
3. All decisions are made collectively

Select the correct answer code:

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

23) Consider the following statements.

1. The Preamble to the Indian Constitution is based on the Objective Resolution.
2. The 44<sup>th</sup> constitutional amendment added three new words—socialist, secular and integrity to preamble.
3. Preamble is a source of power to legislature.

Which of the above statements is/are correct?

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

24) Consider the following statements

1. In the Berubari Union case, the Supreme Court opined that Preamble is part of the Constitution.
2. In the Kesavananda Bharati case, the Supreme Court rejected the earlier opinion and held that Preamble is not part of the Constitution.

Which of the above statements is/are incorrect?

- a) 1 only

## INSTA STATIC QUIZ QUESTIONS

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

25) Consider the following statements

1. The Preamble has been amended only once till date.
2. It is justiciable and its provisions are enforceable in courts of law

Which of the above statements is/are correct?

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

26) Which of the following is/are the demerits of the Parliamentary System?

1. Government by Amateurs
2. Not conducive to administrative efficiency
3. Separation of Powers

Select the correct answer code:

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

27) Which of the following is/are the features of Parliamentary Form of Government?

1. Majority party rule
2. Dissolution of the lower House
3. Collective responsibility of the executive

to the legislature

4. Membership of the ministers in the legislature

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 3, 4
- c) 2, 3, 4
- d) 1, 2, 3, 4

28) Which of the following elements is/are the basic structure of Indian Constitution?

1. Harmony between Union and State
2. Freedom and dignity of the individual
3. Free and fair elections

Which of the statements given above is/are correct?

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

29) Consider the following statements

1. The majority of the provisions in the Constitution need to be amended by a special

majority of the Parliament and ratification by at least half of the state legislatures.

2. Amendment of certain provisions of the Constitution by a simple majority is not deemed as constitutional amendment under Article 368.

Which of the above statements is/are correct?

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

30) Which of the following directive principles of state policy was/were included by 42<sup>nd</sup> Amendment Act of 1976?

1. To promote equal justice and to provide free legal aid to the poor
2. To take steps to secure the participation of workers in the management of industries
3. To protect monuments, places and objects of historic interest which are declared to be of national importance

Select the correct answer code:

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

31) Collective Responsibility of the council of ministers to the Parliament is the bedrock principle of parliamentary government. It implies that

- a) The Lok sabha can remove the council of ministers from office by passing a vote of no confidence
- b) All important decisions of the council of Ministers have to be approved by the Parliament
- c) The council of Ministers is appointed and dismissed by the Parliament
- d) None of the above

32) Consider the following statements.

1. Parliamentary democracy in most countries is often known as the Cabinet form of government.

2. Since it is not practical for all ministers to meet regularly and discuss everything, the decisions are taken in Cabinet meetings.

Which of the above statements is/are correct?

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

## 2. Geography

- 33) The Indian model of government is also called as the “Westminster” model of government because
- Indian constitution was modelled very closely on the lines of the British constitution
  - Indian constitution was made with the assistance of the British
  - India follows parliamentary form of government
  - The members of the parliamentary house are elected through adult franchise

- 34) Which of the following is/are the features of Federalism?
- Different tiers of government govern the same citizens, but each tier has its own jurisdiction.
  - The existence and authority of each tier of government generally is constitutionally guaranteed.
  - Each tier of government must draw all its financial resources independent of the other tier.

Select the correct answer code:

- 1 only
- 1, 2
- 1, 3
- 1, 2, 3

- 35) A federal government means a government in which
- there is division of powers between the Central and state governments; and also between the federal and state judiciaries
  - all the powers are vested in the national government and the regional governments derive their authority from the national government.
  - a large number of powers are vested in the national government and the regional governments, with some independent powers, derive their authority from the national government
  - powers are divided between the national government and the regional governments by the Constitution and both operate in their respective jurisdictions independently

- India’s seed vault, to protect important genetic material in case of a major man-made or natural disaster, is located in
  - Kangchenjunga
  - Karakoram Pass
  - Ladakh
  - Nanda Devi
- State Disaster Response Fund (SDRF) has been constituted by each state under the provisions of Disaster Management act 2005. Disaster(s) covered under SDRF include:
  - Hailstorm
  - Frost damage
  - Flash floods
  - Pest attack
  - Avalanche

Select the correct answer code:

- 1, 3, 4, 5
- 1, 2, 3, 5
- 1, 2, 3, 4, 5
- 1, 2, 3, 4

- Consider the following statements regarding State Disaster Response Fund (SDRF).
  - The Central Government contributes 50% to SDRF and the remaining 50% is provided from the State Government.
  - A State Government may use the funds available under the SDRF for providing immediate relief to the victims of natural disasters that they consider to be ‘disasters’ within the local context in the State.

Which of the above statements is/are correct?

- 1 only
- 2 only
- Both 1 and 2
- Neither 1 nor 2

- Consider the following statements regarding the role and functions of National Disaster Response Force (NDRF)?
  - It imparts basic and operational level training to State Response Forces like Police and Home guards.
  - It is responsible for organizing Public Awareness Campaigns about disaster management.
  - It is the statutorily sanctioned force for guarding sensitive international borders during a disaster.

Which of the above statements is/are correct?

## INSTA STATIC QUIZ QUESTIONS

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

5) Blizzards come under which type of natural disaster

- a) Biological
- b) Terrestrial
- c) Aquatic
- d) Atmospheric

6) Which of the following forces affect the velocity and direction of Wind?

1. Pressure gradient force
2. Frictional force
3. Gravitational force
4. Coriolis force

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 3, 4
- c) 2, 3, 4
- d) 1, 2, 3, 4

7) Consider the following statements.

1. The percentage of moisture present in the atmosphere as compared to its full capacity at a given temperature is known as absolute humidity.
2. The ability of the air to hold water vapour depends entirely on its temperature.
3. The absolute humidity differs from place to place on the surface of the earth.

Which of the above statements is/are correct?

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

8) Consider the following statements.

1. Relative humidity is greater over the continents and least over the oceans.
2. High relative humidity of the air occurs when the air temperature approaches the dew point value.

Which of the above statements is/are correct?

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

9) Consider the following statements regarding Chagos Islands/ Chagos Archipelago.

1. It is the southernmost archipelago of the Chagos-Laccadive Ridge

2. It is located south of Mauritius in Indian Ocean.

Which of the above statements is/are incorrect?

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

10) Consider the following statements regarding Land Breeze.

1. In the Land Breeze, the wind blows from the sea to the land.
2. It usually takes place during day time.

Which of the above statements is/are correct?

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

11) Consider the following statements regarding Heat Budget.

1. Roughly 70 percent of heat received from sun is reflected back to space even before reaching the earth's surface.
2. The reflected amount of radiation by the Earth is called the albedo of the earth.

Which of the above statements is/are correct?

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

12) Consider the following statements regarding first stage of Demographic transition.

1. The first stage has high fertility and high mortality.
2. Most of the people are engaged in agriculture.
3. The population growth is high.

Which of the above statements is/are correct?

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

13) Which of the following factors can be considered as the Basis of International Trade?

1. Stage of economic development
2. Population
3. Extent of foreign investment
4. Difference in national resources

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 3, 4
- c) 2, 3, 4

d) 1, 2, 3, 4

14) Which of the following countries does not share its border with Saudi Arabia?

- a) Iraq
- b) Syria
- c) Qatar
- d) Jordan

15) Consider the following pairs regarding names of Shifting cultivation and their region

1. Jhuming - North eastern states of India
2. Milpa - Central America and Mexico
3. Ladang - Indonesia and Malaysia

Which of the above pairs is/are correctly matched?

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

16) Consider the following statements regarding Population Ageing.

1. Population ageing is the process by which the share of the older population becomes proportionally larger.
2. It is very common in least developed countries.

Which of the above statements is/are correct?

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

17) Consider the following statements.

1. Quaternary activities involve research and development and is seen as an advanced form of services involving specialized knowledge and technical skills.

2. Quinary activities are performed by highest level of decision makers or policy makers.

Which of the above statements is/are correct?

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

18) Consider the following pairs regarding Age-Sex Pyramid with their characteristics:

1. Expanding Populations - narrow base and a tapered top
2. Constant Population - bell shaped and tapered towards the top
3. Declining Populations - triangular shaped pyramid

Which of the above pairs is/are correctly matched?

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

19) Consider the following statements regarding the alluvial plains.

1. Bhangar is a narrow belt parallel to the Shiwalik foothills where the streams and rivers coming from the mountains disappear.
2. In Tarai belt, most of the streams and rivers re-emerge and create marshy and swampy conditions.

Which of the above statements is/are incorrect?

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

20) Consider the following statements regarding Dooars or Duars.

1. Duars are the alluvial floodplains in northeastern India that lie south of the foothills of the Himalayas and north of the Brahmaputra River basin.

2. Duars affect the development of tea gardens.

Which of the above statements is/are correct?

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

### 3. Environment

- 1) Consider the following statements.
1. Ecotone is a zone of junction between two or more diverse ecosystems.
  2. Ecotone is always larger than a biome.
  3. A well-developed ecotone may contain some unique organisms which might be absent in the adjacent ecosystems.

Which of the above statements is/are correct?

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

- 2) Consider the following statements.
1. Chemosynthetic bacteria obtain their energy from the oxidation of inorganic molecules.
  2. Chemosynthetic bacteria do not need sunlight for their survival.

Which of the above statements is/are incorrect?

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

- 3) Consider the following statements.
1. In the composition of living organisms, carbon constitutes the maximum share in the dry weight of organisms.
  2. In the total quantity of global carbon, maximum percentage of carbon is found in the atmosphere.

Which of the above statements 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 energy pyramid of an ecosystem is not always upright and narrow to the top.
  2. Generally the lower trophic levels have higher biomass as compared to the higher trophic levels.

Which of the above statements is/are correct?

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

- 5) Arrange the following ecosystems in the decreasing order of biomass productivity (g per metre square per year).

1. Tropical Rainforests
2. Open ocean
3. Coral reefs
4. Swamps and marshes

Select the correct answer code:

- a) 4-3-1-2
- b) 4-1-3-2
- c) 1-4-3-2
- d) 1-3-4-2

- 6) Which of the following are the main constituents of Biogas?

1. Methane
2. Hydrogen
3. Carbon Dioxide
4. Nitrogen

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 3
- c) 1, 3, 4
- d) 1, 2, 3, 4

- 7) Consider the following statements.

1. The grazing food chain is found in both Terrestrial and aquatic ecosystems.
2. The initial energy source for detritus food chain is dead organic matter.
3. The grazing and detritus food chains are not interlinked.

Which of the above statements is/are correct?

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

- 8) Consider the following statements.

1. Bio magnification means the increase of contaminated substances or toxic chemicals that take place in the food chains.
2. Pollutants need to have long life, and soluble in fat to make bio magnification possible.

Which of the above statements is/are correct?

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

- 9) Consider the following statements.

1. Most mammals regulate their body temperature similarly like humans do.
2. Like humans, plants also have mechanisms to maintain internal temperature.

## INSTA STATIC QUIZ QUESTIONS

3. Very small animals are rarely found in polar regions since thermoregulation is energetically expensive for these animals.

Which of the above statements is/are correct?

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

10) Consider the following statements regarding Phosphorus and Phosphorus Cycle.

1. Phosphorous cycle is mainly terrestrial and on land phosphorus is usually found in the form of phosphates.

2. Phosphorous occurs in large amounts as a mineral in phosphate rocks and enters the phosphorus cycle from erosion and mining activities.

3. Phosphorus is mainly responsible for degradation of free-floating microscopic plants in water bodies.

Which of the above statements is/are correct?

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

11) Consider the following statements regarding Temperate Deciduous Biome

1. They are found in areas with warm moist summers and cool winters.

2. Soils of temperate forests are podzolic and fairly deep.

3. The trees shed their leaves in the summer season.

Which of the above statements is/are correct?

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

12) Consider the following statements.

1. Fungai gain their biomass by producing food by themselves like autotrophs do.

2. Lichens located in tundra climates are an example of a primary producer.

Which of the above statements is/are correct?

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

13) Consider the following statements.

1. Sea weeds are potential indicators of pollution in aquatic ecosystem, particularly heavy

metal pollution due to their ability to bind and accumulate metals strongly.

2. Products like agar-agar and iodine can be extracted from seaweeds.

3. Rotting seaweed releases highly toxic gas.

Which of the above statements is/are correct?

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

14) Consider the following statements regarding Phytoplankton.

1. Phytoplankton obtain the energy through the process of photosynthesis.

2. *Phytoplankton depend on B Vitamins for survival.*

3. They are not found in freshwater ecosystems.

Which of the above statements is/are correct?

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

15) Which of these factors are responsible for the land degradation in India?

- 1. Improper irrigation use in farms
- 2. Monoculture crops
- 3. Intensive extraction of ground water
- 4. Forest fires

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 3, 4
- c) 1, 4
- d) 1, 2, 3, 4

16) Which of the following are the ecosystem services provided by Wetlands?

- 1. Water purification
- 2. Aquifer recharge
- 3. Microclimate regulation
- 4. Aesthetic enhancement of landscapes
- 5. Shoreline Erosion Control

Select the correct answer code:

- a) 1, 2, 3
- b) 2, 3, 4
- c) 1, 3, 4
- d) 1, 2, 3, 4

17) Which of the following lakes is not designated as Ramsar wetland sites in India?

- a) Harike Lake
- b) Pulicat Lake
- c) Loktak Lake

d) Rudrasagar Lake

18) Seaweeds are potential natural fertilizers because

1. They are rich in soil nutrients and amino acids.
2. They are not susceptible to coastal pollution as they are found in deep waters.

Which of the above statements is/are correct?

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

19) Bleaching, or the paling of coral colour occurs due to

1. Fall in the concentration of photosynthetic pigments within the zooxanthellae.
2. Extreme low tides
3. Inflow of Inorganic Nutrients
4. Decline in the densities of zooxanthellae

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 2, 4
- c) 1, 4
- d) 1, 2, 3, 4

20) Consider the following statements.

1. Cold water corals, in general, have greater amount of zooxanthellae than warm water corals and does not build reef-like structures.
2. Cold-water corals differ from warm water corals because the former does not contain symbiotic algae for photosynthesis and grow more slowly.

Which of the above statements is/are incorrect?

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

21) Consider the following statements regarding Nitrogen pollution.

1. Since Nitrates cannot penetrate deep into the soil, they pollute only surface water and not groundwater.
2. Nitrous oxide is a greenhouse gas.
3. Agriculture remains the largest contributor to nitrogen emissions.

Which of the above statements is/are correct?

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

22) Consider the following statements regarding Fluorinated gases.

1. They are emitted through semiconductor manufacturing processes.
2. They have the least global warming potential of all gases.

Which of the above statements is/are correct?

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

23) Which of the following are the sources that add nitrogen oxides into the atmosphere?

1. Lightning stroke
2. Bacteria living in soil
3. Reaction of Ultraviolet radiation with

ozone

Select the correct answer code:

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

24) Which among the following greenhouse gases has the shortest atmospheric lifetime?

- a) Nitrous oxide
- b) Sulfur hexafluoride
- c) Nitrogen trifluoride
- d) Methane

25) Which of the following are biodegradable materials?

1. Tissue paper
2. Cotton cloth
3. Glass objects
4. Synthetic fibres

Select the correct answer code:

- a) 1, 2
- b) 2, 4
- c) 1, 2, 3
- d) 1, 3, 4

26) An energy pyramid shows

1. Absolute amounts of energy stored in each trophic level
2. Rate of energy flow through trophic levels
3. The pattern of energy pyramid reflects the laws of thermodynamics

Select the correct answer code:

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

## INSTA STATIC QUIZ QUESTIONS

d) 1 only

27) An ecotype is a population that  
1. Play a specific functional 'Keystone' role in an ecosystem

2. Carries genes to successfully adapt to local environmental conditions

Select the correct answer code:

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

28) Consider the following statements regarding Eutrophication.

1. It leads to increase in the primary productivity of the water body.

2. It can occur only in the water bodies.

Which of the above statements is/are incorrect?

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

29) Tigers can be found in which of the following types of habitats?

- 1. Mangrove swamps
- 2. Grasslands
- 3. Evergreen forests
- 4. Sub-tropical forests

Select the correct answer code:

- a) 1, 2, 3
- b) 2, 3, 4
- c) 1, 2, 3, 4
- d) 1, 3, 4

30) Consider the following Environmental conventions.

1. Basel Convention : Persistent Organic Pollutants.

2. Rotterdam Convention : Prior Informed Consent Procedure for certain hazardous Chemicals and Pesticides in international trade.

3. Stockholm Convention : Control of Transboundary Movements of Hazardous Wastes and their Disposal.

Which of the above pairs is/are correctly matched?

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

31) Which of the following is the most appropriate analogy regarding the relationship between a "Protected area" and the "Biosphere"?

- a) Earth and the moon
- b) Troposphere and Stratosphere
- c) A tree in a forest
- d) None of the above

32) Consider the following statements regarding Shola Forests.

1. They are tropical montane forests found in high altitudes.

2. They have high concentration of lichen, mosses, ferns and orchids.

3. They have spread over the states of Karnataka, Tamil Nadu and Kerala.

Which of the above statements is/are correct?

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

33) The primary productivity of the tropical rain forest is lower compared to the temperate forests because of

- 1. Intense leaching of soil in tropical rain forests
- 2. Low microbial activity in tropical regions

Select the correct answer code:

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

34) Which of the following regions on earth qualify as biodiversity hotspots?

- 1. The biodiversity of the region is threatened.
- 2. Areas where multiple ecological niches occur

Select the correct answer code:

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

35) Consider the following statements.

1. Some animal species change eating habits as they age.

2. The jaw structure of many animal species indicates their diet.

Which of the above statements is/are incorrect?

- a) 1 only
- b) 2 only
- c) Both 1 and 2

d) Neither 1 nor 2

36) Which of the following plant micronutrients is associated with chlorophyll formation in plants?

1. Iron
2. Copper
3. Magnesium

Select the correct answer code:

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

37) Consider the following statements.

1. Coniferous trees are most desirable as pulpwood.
2. Shorter the cellulose fiber in the pulp of a tree, the more desirable it is for making paper.

Which of the above statements is/are correct?

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

38) Phytoplankton are generally found in upper layers of ocean water because of

1. Abundant sunlight in the upper layer of ocean water
2. Absence of nutrients in deep ocean water

Select the correct answer code:

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

39) Consider the following statements regarding plant pathogens.

1. Bacteria as well as virus can cause diseases in plants.
2. Pathogen transmission cannot happen by the medium of water.
3. Pathogens can affect plants only after transmitting itself from the root to the shoots.

Which of the above statements is/are correct?

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

40) Photoperiodism is a phenomenon related to

- a) Mode of photosynthesis in plants
- b) Flowering in plants
- c) Both a and b
- d) Neither a nor b

41) Consider the following statements.

1. The highest number and high endemism of orchid species are found in Western Ghats.
2. Trade of wild orchid is banned globally.
3. Botanical Survey of India conducts census of orchids in India.

Which of the above statements is/are correct?

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

42) Consider the following statements.

1. The park was created to protect its keystone species, the Nilgiri tahr.
2. The park is characterised by montane grasslands and shrublands interspersed with sholas in a high-altitude area of high rainfall, near-freezing temperatures and high winds.
3. The park is a part of Nilgiri Biosphere Reserve.

The above statements mainly refer to

- a) Mudumalai National Park
- b) Mukurthi National Park
- c) Silent Valley National Park
- d) Eravikulam National Park

43) Consider the following statements about Tamil yeoman.

1. Tamil yeoman is the butterfly species *endemic to Western Ghats* which has been declared *the state butterfly of Tamil Nadu*.
2. Tamil Nadu became the first state in the country to *declare a state butterfly*.

Which of the above statements is/are incorrect?

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

44) Which of the following rivers flows through Kaziranga National Park?

1. Brahmaputra
2. Diphlu
3. Dharla
4. Mora Dhansiri
5. Rangpo

Select the correct answer code:

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

45) Consider the following statements.

## INSTA STATIC QUIZ QUESTIONS

1. India is a temporary home to several migratory animals and birds like Amur Falcons, Bar-headed Geese, and Humpbacked Whales.

2. The Indian sub-continent is also part of Central Asian Flyway (CAF) that covers areas between the Arctic and Indian Oceans.

3. India had legally binding MoUs with the Convention on Migratory Species (CMS) on the conservation and management of Siberian Cranes and Marine Turtles.

Which of the above statements is/are correct?

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

46) Which of the following are the Ozone depleting substances?

- 1. Hydrobromofluorocarbons (HBFCs)
- 2. Halons
- 3. Carbon tetrachloride
- 4. Methyl chloroform
- 5. Methyl bromide

Select the correct answer code:

- a) All except 3
- b) All except 4
- c) All except 5
- d) All of the above

47) Which of the following correctly assesses the impact of climate change on agriculture and food security?

- 1. Crop yield may be reduced in most tropical and sub-tropical regions due to decreased water availability.
- 2. Insect or pest incidence may increase leading to greater crop losses.

Which of the above is/are correct?

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

48) The chemical oxygen demand (COD) test is commonly used to measure which of the following?

- a) Amount of oxygen used in an oxygenation process
- b) Computing oxygen levels in forest ecosystems
- c) Oxygen required to decompose organic constituents present in the wastewater
- d) None of the above

49) Which of the following pollutants are directly emitted from motor vehicles?

- 1. Particulate matter
- 2. Un-burnt hydrocarbons
- 3. Ozone
- 4. Carbon monoxide
- 5. Methane

Select the correct code:

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

50) Which of the following will reduce Global Warming in the short-term?

- a) Melting of permafrost In the Arctic region
- b) Increased rice cultivation
- c) Greater promotion of cattle breeding in developing countries
- d) Major and sustained volcanic explosions

51) Which of the following adds/add nitrogen to the soil?

- 1. Burning of coal by man
- 2. Death of vegetation
- 3. Excretion of urea by animals

Select the correct answer code.

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

52) Which of these ecosystems would sequester most carbon for a given unit of area?

- a) Mature tropical forests
- b) Saltmarsh
- c) Grassland
- d) Bare soil

53) Carbon Capture Utilization Storage (CCUS) is the process of

- a) Generating carbon certificates from carbon-intensive activities and issuing them based on the carbon footprint associated with each such activity
- b) Redistributing captured carbon from storage in the atmosphere to mitigate de-calcification in marine sources
- c) Capturing waste carbon dioxide from large point sources and reusing it
- d) Destroying atmospheric CO<sub>2</sub> by way of electrostatic precipitators and storing the residue in specialized storages

## INSTA STATIC QUIZ QUESTIONS

- 54) Ocean acts as a large carbon sink on earth due to
- Rich population of phytoplankton and seagrass
  - Its large geographical coverage
  - Difference in the partial pressure of carbon dioxide between seawater and air
  - All of the above
- 55) Which of the following are the Geoengineering techniques designed to tackle the effects of climate change?
- Adding large quantities of lime to the Ocean water to increase the amount of CO<sub>2</sub> absorption by the oceans.
  - Floating thousands of tiny mirrors in space between Earth and the sun.
  - Using unmanned ships to increase above-ocean cloud cover by spraying sea water into the air.
  - Artificial trees that pull the CO<sub>2</sub> from the atmosphere using plastic polymers.
- Select the correct answer code:
- 1, 2, 3
  - 1, 3, 4
  - 1, 2, 4
  - 1, 2, 3, 4
- 56) Consider the following statements regarding Permafrost.
- Permafrost store about double the amount of carbon present in the atmosphere.
  - In the solid state of Permafrost, microbial decomposition of organic materials is stalled and as the Earth warms microbes become active and the greenhouse gases drift upwards.
- Which of the above statements is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 57) Mosses is a bioindicator. What do you understand by this statement?
- It reflects changes to ecosystems such as pollution.
  - It cannot be cloned or genetically engineered.
  - It does not contain mRNA.
- Select the correct answer code:
- 1 only
  - 2, 3
  - 3 only
  - 1, 2
- 58) With reference to the evolution of living organisms on earth, which of the following is the correct sequence of evolution?
- Spiders-Snakes-Corals-Horses
  - Snakes-Spiders-Corals-Horses
  - Corals-Spiders-Snakes-Horses
  - Horses-Spiders-Snakes-Corals
- 59) Which of the following statements best describes biotic potential?
- It refers to the potential biomass of a population measured as dry weight per unit area.
  - It refers to the maximum reproductive capacity of an organism under optimum environmental conditions.
  - It refers to the possible functional roles a species can play in an ecosystem.
  - It refers to the minimum population of a species required to sustain a food web.
- 60) When ocean temperatures get too hot, corals often experience 'bleaching' events. What does this mean?
- Plants and animals living in the vicinity of corals die
  - Corals move towards cooler waters
  - Corals submerge themselves completely under water, starving themselves of sunlight and air to breathe
  - The symbiotic nature of the relationship between a certain plant and animal breaks down
- 61) Consider the following statements.
- States and Union Territories with more than 50 per cent of their land under forest cover can undertake compensatory afforestation in other states.
  - According to the Forest (Conservation) Act, 1980, each time forest land is diverted, the project proponent has to pay the state for the ecosystem services lost due to diverting forest land.
- Which of the above statements is/are correct?
- 1 only
  - 2 only
  - Both 1 and 2
  - Neither 1 nor 2
- 62) Consider the following statements regarding Compensatory Afforestation Fund and Compensatory Afforestation Fund Management and Planning Authority (CAMPA) Act, 2016.
- The law establishes the National Compensatory Afforestation Fund under the Public Account of India, and a State Compensatory

## INSTA STATIC QUIZ QUESTIONS

Afforestation Fund under the Public Account of each state.

2. The law says that land selected for afforestation should preferably be contiguous to the forest being diverted so that it is easier for forest officials to manage it.

Which of the above statements is/are correct?

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

63) Central Ground Water Authority (CGWA) has been constituted under

- a) Environment (Protection) Act, 1986
- b) Hazardous waste Handling and management act, 1989
- c) Public Liability Insurance Act, 1991
- d) Water (Prevention and Control of Pollution) Act, 1974

64) Consider the following statements.

1. Wildlife Protection Act (WPA) empowers the Central government to declare any wild animal, including those in Schedule I & II of the WPA, to be vermin for specified area and period.
2. Wildlife Protection Act authorizes Chief Wildlife Warden to permit hunting of certain wild animals only if they cannot be captured or translocated.

Which of the above statements is/are correct?

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

65) Consider the following statements regarding National Board for Wildlife.

1. National Board for Wildlife is a Statutory Organization constituted under the Environment (Protection) Act, 1986.
2. It has the power to review all wildlife-related matters and approve projects in and around national parks and sanctuaries.
3. The NBWL is chaired by the Union Environment Ministry.

Which of the above statements is/are correct?

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

66) The Global Environment Facility (GEF) provides funding to assist developing countries in

meeting the objectives of international environmental conventions. The GEF serves as a "financial mechanism" to which of these conventions?

1. Stockholm Convention on Persistent Organic Pollutants (POPs)
2. Minamata Convention on Mercury
3. Convention on Biological Diversity (CBD)
4. UN Convention to Combat Desertification (UNCCD)

Select the correct answer code:

- a) 1, 2
- b) 1, 2, 3
- c) 2, 3, 4
- d) 1, 2, 3, 4

67) Consider the following statements regarding Green Climate Fund (GCF).

1. The Green Climate Fund (GCF) is a fund established within the framework of the UNFCCC.
2. The Fund's investments can be in the form of grants only.
3. GCF has established a direct access modality so that national and sub-national organisations can receive funding directly, rather than only via international intermediaries.

Which of the above statements is/are correct?

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

68) Consider the following statements regarding International Union for Conservation of Nature (IUCN).

1. Its main aim is to mobilize the public in support of nature conservation.
2. It has observer and consultative status at the United Nations.
3. It was involved in establishing the World Wide Fund for Nature.

Which of the above statements is/are correct?

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

69) The Intergovernmental Panel on Climate Change (IPCC) is the leading international body for the assessment of climate change. Consider the following statements regarding Intergovernmental Panel on Climate Change.

1. Its membership is open to all member countries of the United Nations (UN).

2. It was established by the United Nations Framework Convention on Climate Change (UNFCCC).

3. Scientists from all over the world contribute to the work of the IPCC on a voluntary basis.

Which of the above statements is/are correct?

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

70) Consider the following about Conservation International (CI).

1. It is an inter-governmental environmental organization based in Hague.

2. Its work focuses on science, policy, and partnership with businesses and communities with regard to climate change and environment.

Which of the above statements is/are correct?

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

71) Consider the following statements

1. Humification leads to accumulation of a dark colored amorphous substance called humus.

2. Humus is highly resistant to microbial action and undergoes decomposition at an extremely slow rate.

3. The humus is further degraded by some microbes and release of inorganic nutrients occurs by the process known as catabolism.

Which of the above statements is/are correct?

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

72) Consider the following statements regarding Ecological Succession.

1. The gradual and fairly predictable change in the species composition of a given area is called ecological succession.

2. The entire sequence of communities that successively change in a given area are called sere(s).

3. Primary succession begins in areas where natural biotic communities have been destroyed.

Which of the above statements is/are correct?

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

- d) 1, 2, 3

73) Consider the following statements regarding Ecotone.

1. A well-developed ecotone contains some organisms which are entirely different from that of the adjoining communities.

2. Mangrove forests represent an ecotone.

3. The organisms which occur primarily or most abundantly in this zone are known as edge species.

Which of the above statements is/are correct?

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

74) In order for biomagnification to occur, the pollutant must be

- 1. Short-lived
- 2. Mobile
- 3. Soluble in fats
- 4. Biologically inactive

Select the correct answer code:

- a) 1, 2, 3
- b) 1, 3, 4
- c) 1, 2, 3, 4
- d) 2, 3

75) Consider the following statements regarding life form in aquatic ecosystem.

1. Neuston: These are unattached organisms which live at the air water interface.

2. Nekton: These are organisms which remain attached to stems and leaves of rooted plants

4. Benthos: The benthic organisms are those found living in the bottom of the water mass.

Which of the above statements is/are correct?

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

76) Consider the following statements regarding Photochemical smog.

1. Photochemical smog is a term used to describe air pollution that is a result of the interaction of sunlight with certain chemicals in the atmosphere.

2. One of the primary components of photochemical smog is stratospheric ozone.

Which of the above statements is/are correct?

## INSTA STATIC QUIZ QUESTIONS

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

77) Consider the following statements regarding biomass production.

1. Gross primary productivity of an ecosystem is the rate of production of organic matter during photosynthesis.
2. Net primary productivity is the available biomass for the consumption to heterotrophs.
3. Secondary productivity is gross primary productivity minus respiratory losses.

Which of the above statements is/are correct?

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

78) Consider the following statements regarding Wildlife Crime Control Bureau.

1. It is a statutory multi-disciplinary body established under Prevention of Cruelty to Animals Act, 1960.
2. It is mandated to establish a centralized wildlife crime data bank.
3. It is also mandated to collect and collate intelligence related to organized wildlife crime activities.

Which of the above statements is/are correct?

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

79) Consider the following statements regarding population interactions.

1. In competition, only one species benefits and the other is harmed.
2. The interaction where one species is benefitted and the other is neither benefitted nor harmed is called commensalism.
3. Example of commensalism is the interaction between sea anemone that has stinging tentacles and the clown fish.

Which of the above statements is/are correct?

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

80) Consider the following statements regarding Cheetah.

1. Cheetah is the world's fastest land mammal.
2. The Asiatic cheetah is classified as critically endangered by the IUCN Red List.
3. Cheetah was declared extinct in India.

Which of the above statements is/are correct?

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