



INSIGHTSIAS

SIMPLIFYING IAS EXAM PREPARATION

INSTA STATIC QUIZ QUESTIONS

APRIL 2023

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1. Polity

1) Consider the following statements regarding the terms of the Office of Governor.

1. The Governor can resign at any time by addressing a resignation letter to the Chief Minister of the State.
2. The Constitution does not lay down the grounds upon which a governor may be removed by the President.

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) Consider the following statements regarding the Preamble of Indian Constitution.

1. The original Preamble, adopted by the Constituent Assembly in 1949, declared India a "Sovereign Socialist Secular Democratic Republic".
2. Preamble states the objects of the Constitution, and acts as an aid during the interpretation of Articles in the Constitution.

3. The 42nd Amendment to the Constitution changed "unity of the nation" to "unity and integrity of the nation".

Which of the above statements is/are correct?

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

3) Consider the following statements regarding State Legislative Council.

1. The constitution leaves the choice of having a Legislative Council to the Parliament.
2. A Council cannot have more than a third of the number of MLAs in the state, and not less than 40 members.
3. The states having Legislative Council are Andhra Pradesh, Bihar, Karnataka, Maharashtra, Telangana and Uttar Pradesh.

Which of the above statements is/are correct?

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

4) Which principle among the following was added to the Directive Principles of Stat Policy by the 42nd Amendment to the Constitution?

- a) Equal pay for equal work for both men and women

- b) Participation of workers in the management of industries
- c) Right to work, education and public assistance
- d) Securing living wage and human conditions of work to workers

5) Which of the following provision(s) needs a special majority to pass bill in the Parliament?

1. Increasing the number of puisne judges in Supreme Court
2. Creation of new States
3. Abolition of Legislative Councils of state assembly
4. Addition of new fundamental right

Select the correct answer code:

- a) 2, 4
- b) 1, 4
- c) 4 only
- d) None of the above

6) Which of the following committees does not have members form the Rajya Sabha?

- a) Committee on Public Undertakings (COPU)
- b) Public Accounts committee (PAC)
- c) Estimates Committee
- d) Committee on the Welfare of Scheduled Castes and Scheduled Tribes

7) Consider the following statements regarding the Election of President of India.

1. The President is elected by the elected members of the Parliament and the legislative assemblies of states and union territories of Delhi and Puducherry.
2. The system of proportional representation by means of single transferrable vote is followed
3. A Union minister shall not be eligible for election as the President
4. The Electoral college does not include elected members of the Legislative Councils.

Which of the above statements is/are correct?

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

8) Consider the following statements regarding Adjournment and Prorogation.

1. The former terminates both the sitting and session of the house, while the latter only terminates the sitting of the house.
2. Both are done by the presiding officer of the house.
3. Both does not affect the bills or any other business pending before the house.

Which of the above statements is/are correct?

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

9) Consider the following statements regarding Speaker of Lok Sabha.

1. The Speaker of Lok Sabha leave the office soon after dissolution of the Lok Sabha.
2. Business Advisory Committee and Rules Committee work directly under the Chairmanship of the Speaker.

Which of the above statements is/are correct?

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

10) The Citizenship Act 1955 deals with the determination of Citizenship on or after

- a) 15th August 1947
- b) 14th August 1947
- c) 26th November 1949
- d) 26th January 1950

2. Geography

1) Consider the following statements regarding ocean currents

1. Ocean currents are set in motion primarily by prevailing winds.
2. Ocean currents assist in maintaining the earth's heat balance.

Which of the above statements is/are incorrect?

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

2) Consider the following statements.

1. Surface current constitute more than the deep-water currents.

2. Cold currents are usually found in the west coast in the higher latitudes in the Northern Hemisphere.

3. Warm currents are found on the east coast of continents in the low and middle latitudes. Which of the above statements is/are correct?

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

3) The California Ocean current, which flows along the west coast of North America, is a

- a) Cold current, flowing north
- b) Warm current, flowing south
- c) Cold current, flowing south
- d) Warm current, flowing north

4) Consider the following statements regarding Polar vortex.

1. The polar vortex is a large area of high pressure and cold air surrounding the Earth's North and South poles.
2. The polar vortex spins in the stratosphere.
3. During winter in the Northern Hemisphere, the polar vortex will become less stable, sending cold Arctic air southward over the United States.

Which of the above statements is/are correct?

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

5) Consider the following statements:

1. These are the most widespread forests in India
 2. They spread over regions which receive rainfall between 70-200 cm
 3. These forests are also found in the north-eastern states along the foothills of Himalayas
- The above statements are related to:

- a) Tropical Thorn forests
- b) Tropical Deciduous Forests
- c) Semi Evergreen forests
- d) Montane forests

6) Consider the following characteristics of the soil type.

1. These soils consist of various proportions of sand, silt and clay.
2. These soils can be further classified on the basis of their age.

3. These soils contain adequate proportions of potash, phosphoric acid and lime.

The above statements refer to

- a) Black Soil
- b) Laterite Soil
- c) Red Soil
- d) Alluvial Soil

7) Consider the following statements.

1. The size of explosive volcanic eruptions based on magnitude and intensity is measured by Volcanic Explosivity Index (VEI).

2. Volcanic soils are fertile and are rich in key nutrients, such as iron, calcium, magnesium, potassium and phosphorous.

3. Iceland and Philippines were created by volcanic activity.

Which of the above statements is/are correct?

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

8) Which of the following rivers originate from Mount Kailash?

- 1. Indus
- 2. Brahmaputra
- 3. Karnali
- 4. Sutlej

Select the correct answer code:

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

9) Consider the following statements.

1. During the day time the intensity of tides is always uniform along the coastline.

2. The position of both the sun and the moon in relation to the earth has direct bearing on tide height.

3. Neap tides occur when the sun, the moon and the earth are in a straight line.

Which of the above statements is/are incorrect?

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

10) Tidal currents are

- a) Tides which are channelled between islands, bays and estuaries.
- b) Deep water ocean currents associated with neap tides.

c) Combination of tides and ocean current moving together.

d) Strong tides which has high potential to extract tidal energy.

3. Economy

1) Consider the following statements regarding Opportunity cost.

1. Opportunity costs represent the potential benefits that an individual, investor, or business misses out on when choosing one alternative over another.

2. For companies, opportunity costs do not show up in the financial statements but are useful in planning by management.

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) Consider the following statements regarding GDP deflator.

1. It shows the increase in gross domestic product has happened on account of higher prices rather than increase in output.

2. The GDP deflator contains only those goods and services which households purchase for consumption.

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) The First Five-year Plan mainly focused on the development of

- a) Heavy industries
- b) Consumer goods
- c) Primary sector
- d) Vocational education

4) Which of the following are considered as consequences of inflation in the economy?

- 1. Depreciation of currency
- 2. Borrowers suffer and lenders benefit out of inflation
- 3. Increases the nominal value of wages
- 4. Volume of exports decreases.

Select the correct answer code:

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

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

5) Which of the following characterizes a managed exchange rate?

1. Determined by the IMF based on market movements
2. Value of the currency is affected by the Balance of Payments of a nation
3. Central Bank intervenes to manage the value of the currency

Select the correct answer code:

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

6) Which of the following are barriers to the free adjustments in the currency exchange rate in the Forex market?

1. Frequent sterilization by the Central bank
2. Exporting a commodity that is of the comparative advantage of a nation

Which of the above statements is/are correct?

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

7) Consider the following statements.

1. Unlike core inflation, headline inflation takes into account changes in the price of food and energy.
2. Reserve Bank of India (RBI) uses CPI-combined as the key inflation measure for the purpose of monetary policy.
3. Consumer Price Index Numbers for Industrial workers measure a change over time in prices of a fixed basket of goods and services consumed by Industrial Workers.

Which of the above statements is/are correct?

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

8) Which of the following pairs are correctly matched?

1. Cyclical Slowdown: It is a period of lean economic activity that occurs at regular intervals.
2. Structural Slowdown: It is a more deep-rooted phenomenon that last over a long-term.

Select the correct answer code:

- a) 1 only
- b) 2 only

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

9) Which of the following best describes the term Middle Income Trap

- a) Countries deliberately in middle-income levels so as to receive the benefits from WTO.
- b) Rapidly growing economies stagnating at middle-income levels and failing to graduate into the ranks of high-income countries.
- c) Countries that are in the Middle-Income level since the formation of WTO and not moving up to the higher income category
- d) None of the above

10) The general rise in Gini Coefficient may indicate

- a) Government policies are not inclusive and benefitting rich more than poor.
- b) Increasing foreign exchange reserves due to high export potential.
- c) Budget surplus in consecutive financial years.
- d) Government policies are inclusive and benefitting the disadvantaged groups.

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SIMPLIFYING 4. Art and Culture

1) The Kalighat paintings portrayed

- a) only mythological themes
- b) only secular themes
- c) religious, mythological and secular themes
- d) religious, mythological and secular themes as well as heroic figures from the national movement

2) Which of the following are the Buddhist pilgrimage sites in India?

1. Nagapattinam
2. Kushinagar
3. Sirpur
4. Karla caves

Select the correct answer code:

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

3) What does "Sarvatobhadra" type of temple in Ancient India mean?

- a) One which is protected from all sides.
- b) One with a circumambulatory path.

- c) One which can be accessed from all sides.
d) One without a circumambulatory path.

4) Which of the following are prominent features of the Nagara Architecture, in contrast to other types of Hindu temple architecture?

1. Absence of Mandapa
2. Presence of large Gopurams
3. Shikhara above Sanctum

Select the correct answer code:

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

5) Consider the following statements regarding Brihadishvara Temple.

1. It is a Hindu temple located on the bank of Krishna river.
2. It is an exemplary example of a fully realised Dravidian architecture and part of great living Chola Temples.
3. It is called as Dhakshina Meru.

Which of the above statements is/are correct?

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

6) Consider the following statements regarding the Gupta rule in India:

1. The Prayaga Prashasti (also known as the Allahabad Pillar Inscription) was composed by Harisena.
2. Banabhatta, was the court poet of Samudragupta.
3. The Prayaga Prashasti was composed in praise of SamudraGupta.

Which of the above statements is/are incorrect?

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

7) Consider the following statements regarding Pattachitra.

1. Pattachitra style of painting is one of the oldest art forms of West Bengal.
2. It is a painting done on canvas, and is manifested by rich colourful application, creative motifs and designs.
3. Some of the popular themes represented through this art form are Thia Badhia, Krishna Lila and Dasabatara Patti.

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 regarding Bhaona.

1. Bhaona is a traditional form of entertainment with religious messages, prevalent in Assam.
2. It is a creation of Mahapurusha Sankardeva.
3. These plays are popularly known as Ankiya Nats.

Which of the above statements is/are correct?

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

9) Consider the following statements regarding Hathigumpha Inscription.

1. It was inscribed by King Kharavela during 2nd century BCE.
2. It was written in Prakrit language.
3. It is also known as Maski Inscription.

Which of the above statements is/are correct?

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

10) Which of the following pairs are correctly matched?

1. Gatka: Ancient martial art from Punjab
2. Kalaripayattu: Martial art form that originated in Kerala
3. Yakshagana: Traditional theatre form of Madhya Pradesh
4. Mallakhamba: Traditional state sport of Karnataka

Select the correct answer code:

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

5. History

- 1) Consider the following statements regarding Tattvabodhini Sabha.
1. It was founded by Debendranath Tagore.
 2. It was a splinter group of the Brahma Samaj.
 3. It opposed the Vedantic views of Hinduism.

Which of the above statements is/are correct?

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

- 2) Given are the reasons below why rebels failed in attaining their goal during the 1857 revolt.

Which of them are correct?

1. The rebels had no political perspective or a definite vision of the future
2. They were poorly served by their leaders with the exception of few
3. Almost half the Indian soldiers fought against their own countrymen

Select the correct answer code:

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

- 3) Individual Satyagraha was called by Gandhiji in reaction to?

- a) Cripps Mission
- b) Simon Commission
- c) August Offer
- d) Wavell Plan

- 4) Gandhiji was the editor of which of these English weeklies?

1. Harijan
2. Indian Opinion
3. Heritage India
4. Navjivan

Select the correct answer code:

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

- 5) Whitley Commission established in British India was mandated to report on

- a) Trade and commerce within the princely states

- b) Police and military reforms needed in the wake of the 1857 mutiny
- c) Financial reforms needed in British administration
- d) Existing conditions of labour and to make recommendations

- 6) The inscriptions of the Cholas mention various kinds of taxes. Which of these is the most frequently mentioned tax in these inscriptions?

- a) Rumolna
- b) Vetti
- c) Surnam
- d) Ladamol

- 7) Chola inscriptions mention several categories of land. Among them vellanvagai was a land

- a) left for fallow cultivation
- b) donated to Jaina institutions
- c) belonging to non-Brahmana peasant proprietors

- d) given for the maintenance of a school

- 8) During the Mughal period of Indian history, the term Parwana refer to

- a) Order of the emperor.
- b) Proceedings of the provincial court.
- c) Orders issued by higher authorities.
- d) Order of a member of the royal family

- 9) In which of the following revolts did the Koya and Konda tribal chiefs rise against the local overlord from a Mansabdar family?

- a) The Rampa Rebellion, 1879-1880
- b) The Gudem Uprising, 1886
- c) The Rampa Rebellion, 1922-1924
- d) The Telangana Armed Struggle, 1946-

1951

- 10) Consider the following statements about Quit India Movement.

1. Quit India Movement was a corollary of the failure of the Cabinet Mission Plan.
2. The first half of the movement was peaceful with demonstrations and processions.
3. A significant feature of the Quit India Movement was the emergence of what came to be known as parallel governments in some parts of the country.

Which of the above statements is/are correct?

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

6. Environment

- 1) The phenomenon of increasing concentration of a substance, such as a toxic chemical, in the tissues of tolerant organisms at successively higher levels in a food chain is known as:
 - a) Bioaccumulation
 - b) Biosparging
 - c) Biomagnification
 - d) Biodilution

- 2) Depending upon the amount of net primary productivity the various ecosystems can be arranged in a decreasing sequence of yield. Which of these is the correct order?
 - a) Tropical seasonal forest – Tropical rain forest – Temperate Grassland – Woodland and Shrub land.
 - b) Tropical seasonal forest – Tropical rain forest – Woodland and Shrubland – Temperate Grassland
 - c) Tropical rain forest – Temperate Grassland – Woodland and Shrubland – Tropical seasonal forest.
 - d) Tropical rain forest – Tropical seasonal forest – Woodland and Shrubland – Temperate Grassland.

- 3) Birds Following Army Ants is an example for which of the following types of symbiotic relationship between organisms?
 - a) Mutualism
 - b) Parasitism
 - c) Commensalism
 - d) Competition

- 4) In dry areas of low rainfall, thorny shrubs and scrubs grow. How do such plants adapt to the low level of moisture?
 1. Such plants generally have shallow roots to utilize water more efficiently.
 2. Some plant leaves have thorny and waxy surface to reduce loss of moisture by transpiration.
 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 about life forms.

1. Epiphytic: plants which derive nutrients from fungi that are attached to the roots of a vascular plant
2. Terrestrial: plants growing on land and climbers
3. Mycoheterotrophic: plants growing on another plants

Which of the above are correctly matched?

- a) 2 only
 - b) 1, 2
 - c) 2, 3
 - d) 1, 2, 3
-
- 6) Molds derive energy through
 - a) Photosynthesis
 - b) Heterotrophy
 - c) Sulphur synthesis
 - d) Autotrophy

 - 7) Which of the following shows the symbiotic relationship (partially or fully) between Rhizobium bacteria and the plants they colonise?
 1. Rhizobium bacteria colonize plant cells within root nodules, where they convert nitrous oxide from the soil into ammonia and provide organic nitrogenous compounds to the plants.
 2. The plant, in turn, provides the Rhizobium bacteria with organic compounds made using photosynthesis.
 Select the correct answer code:
 - a) 1 only
 - b) 2 only
 - c) Both 1 and 2
 - d) Neither 1 nor 2

 - 8) A plant which critically requires this nutrient will fare poorly in black soil. The Nutrient here refers to
 - a) Potash
 - b) Magnesia
 - c) Alumina
 - d) Phosphorous

 - 9) Tropics harbour more species than temperate or polar areas. What could be the possible reasons that tropics account for greater biological diversity than temperate regions.
 1. There is more solar energy available in the tropics.
 2. Unlike temperate regions which were subjected to frequent glaciations in the past, tropical latitudes have remained relatively undisturbed for millions of years.

3. Tropical environments are less seasonal, relatively more constant and predictable unlike temperate regions.

Select the correct answer code:

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

10) Mediterranean trees adapt themselves to dry summers with the help of their thick barks and wax coated leaves. These help them to

- a) Increase the area of the leaves to step up glucose intake
- b) Increase rate of water flow from roots to shoots
- c) Cut down the need for photosynthesis
- d) Reduce transpiration

11) Which of the following have low Albedo?

- a) Ocean Ice
- b) Desert Sand
- c) Fresh asphalt
- d) Bare Soil

12) Estuaries are among the most productive ecosystems in the world. What could be the possible reason?

- 1. Some estuaries forms an ecotone of freshwater and salty seawater.
- 2. Estuaries are not subject to disturbing forces like tides and waves.

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) Which of the following statements is incorrectly stated?

- a) Alpha diversity refers to diversity within a particular area or ecosystem.
- b) Food chain is more comprehensive than food web in displaying possible transfers of energy.
- c) Gamma diversity is studied at a very large scale, say a biome
- d) None of the statements (a), (b), and (c) are incorrect.

14) Ecological Succession is generally characterized by

- 1. Increased productivity
- 2. Decreased niche development

3. Increased complexity of food webs

Select the correct answer code:

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

15) Consider the following statements regarding Peatlands.

- 1. Peatlands are wetlands that contain mixture of decomposed organic material.
- 2. Peatlands often lack oxygen as they are partially submerged in layer of water.
- 3. If they are drained, their high carbon content makes them vulnerable to incineration.

Which of the above statements is/are correct?

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

7. Science and Technology

1) Consider the following statements regarding High Altitude Pseudo Satellite (HAPS).

- 1. HAPS are advanced unmanned flying systems that operate in the stratosphere.
- 2. These satellites can be controlled from anywhere using Beyond Line of Sight (BLOS) technology.
- 3. They are intended to replace the conventional Unmanned Aerial Vehicles (UAVs).

Which of the above statements is/are correct?

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

2) Consider the following statements regarding Dark energy.

- 1. Dark energy is the mysterious form of energy that makes up less than 1% of the universe.
- 2. While dark matter attracts and holds galaxies together, dark energy repels and causes the expansion of our universe.

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) Indian Remote Sensing (IRS) satellites are mainly used for which of the following purposes?
1. Mineral exploration
 2. Assessment of crop productivity
 3. Coastal and disaster management
 4. Telecommunications
 5. Locating groundwater resources

Select the correct answer code:

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

- 4) Consider the following statements regarding Remote Sensing.

1. It is the science of obtaining information about objects or areas from a distance, typically from aircraft or satellites.
2. It collects data by detecting the reflected energy from the Earth.
3. Hyperspectral imaging, sonar, and seismograms are common application of the remote sensing.

Which of the above statements is/are correct?

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

- 5) Consider the following statements regarding the phenomenon of "Gravitational lensing".

1. Gravitational lensing occurs when a massive galaxy creates a gravitational field that distorts and magnifies the light from distant galaxies that are behind it in the same line of sight.
2. Gravitational lenses act like natural cosmic telescopes.
3. Gravitational lensing is opposite to the Einstein's theory of general relativity.
4. More massive the object, the stronger is its gravitational field.

Which of the above statements is/are correct?

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

- 6) Consider the following statements.

1. X-ray fluorescence is commonly used to study the composition of materials in a non-destructive manner.
2. When the sun gives out solar flares, a large amount of X-ray radiation falls on the moon, triggering X-ray fluorescence.

Which of the above statements is/are incorrect?

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

- 7) Consider the following statements regarding Hydrogen.

1. Hydrogen is the lightest and first element on the periodic table.
2. Water is the most abundant compound of hydrogen found on earth.
2. Because of its highly combustible property, Hydrogen as a fuel can be used only in internal combustion engines and not in spacecraft propulsion.

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 Air-independent propulsion.

1. It is a technology which allows a non-nuclear submarine to operate by using the atmospheric oxygen.
2. It is based on the combustion of oxygen and ethanol to augment battery-powered propulsion.
3. The Non-nuclear submarines running on Air-independent propulsion can be virtually silent.

Which of the above statements is/are correct?

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

- 9) Consider the following statements regarding Nuclear Fusion.

1. Nuclear Fusion reaction is possible at the kind of temperature that exists at the core of the Sun and the stars.
2. The fusion reaction produces almost no carbon emissions and produces much less radioactive waste compared to fission.
3. The only disadvantage for fusion reaction is that the raw materials are not sufficiently available.

Which of the above statements is/are correct?

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

INSTA STATIC QUIZ QUESTIONS

10) The Earth Observation Satellites have applications in which of the following areas?

1. Ocean resource management
2. Mineral prospecting
3. Disaster management
4. Urban planning

Select the correct answer code:

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

11) Consider the following statements regarding Distributed ledger technology (DLT).

1. Distributed ledger technology (DLT) is a digital system for recording the transaction of assets in which the details are recorded in multiple places at the same time.
2. Blockchain technology is a specific kind of Distributed ledger technology.
3. Unlike traditional databases, distributed ledgers have a central data store or administration functionality.

Which of the above statements is/are correct?

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

12) Consider the following statements about Black Holes

1. Most Black holes are formed from the remnants of a large star that dies in a supernova explosion.
2. Black holes were predicted by Einstein's theory of general relativity.
3. Scientists can directly observe black holes with telescopes that detect x-rays, light, or other forms of electromagnetic radiation.

Which of the above statements is/are correct?

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

13) In order to stay over the same location on the Earth, a geostationary satellite must be directly above the

- a) Tropic of Cancer
- b) Either North or South Pole
- c) Equator
- d) Tropic of Capricorn

14) Consider the following statements regarding non-fungible token (NFT).

1. NFTs are unique digital assets with each token representing a unique value.
2. NFTs include digital real estate, digital art and music.
3. NFT is not interchangeable in nature.

Which of the above statements is/are correct?

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

15) Wireless mobile charger is replacing USB mobile charger quite rapidly. Wireless mobile charger works on which of the following principle?

- a) Bernoulli's principle
- b) Kirchhoff's law
- c) Principle of electromagnetic induction
- d) Pascal's law

16) Consider the following statements regarding Goldilocks zone.

1. Goldilocks zone, is the area around a star where it is not too hot and not too cold for liquid water to exist on the surface of surrounding planets.
2. Earth is the only planet in the Sun's Goldilocks zone.
3. If a planet is in the Goldilocks Zone of a star, it necessarily means the planet is going to have life or liquid water.

Which of the above statements is/are correct?

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

17) Consider the following statements regarding Low Earth Orbit (LEO).

1. It is an Earth-centered orbit with an altitude of 2,000 km or less.
2. The International Space Station conducts operations in LEO.
3. Major disadvantage of low Earth orbit is that it requires high amount of energy for placing the satellites.

Which of the above statements is/are incorrect?

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

18) Consider the following statements regarding 'Quantum Supremacy'.

1. When quantum computers are being able to solve a problem that a classical computer can't, it is said to have achieved quantum supremacy.

2. It also denotes domination of countries who have successfully developed quantum computers.

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) Dark fibre is

- a) It is the collective name for a number of malicious software variants.
- b) a cable laid on the sea bed to carry telecommunication signals across stretches of ocean and sea.
- c) It is part of the internet that isn't visible to search engines and requires the use of an anonymizing browser.
- d) an unused optical fibre, available for use in fibre-optic communication

20) The term 'Data Scraping' sometimes seen in news, rightly denotes

- a) Modifying the original data content in a website
- b) Restricting data access from a website
- c) Process of extracting data from a website
- d) Process of deleting data from a website

21) Consider the following statements regarding Nuclear magnetic resonance spectroscopy (NMR).

1. Nuclear magnetic resonance spectroscopy (NMR) technique is used for determining the structure of organic compounds.

2. Due to its electromagnetic radiation, it cannot be used to test the adulterants in food.

Which of the above statements is/are correct?

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

22) Consider the following statements.

1. The development of Agni missiles started under the Integrated Guided Missile Development Programme.

2. Agni-5 is a nuclear-capable missile developed by Defence Research and Development organisation (DRDO).

3. Agni P is a canisterised missile that can be launched from road and rail platforms, making it easier for it to be deployed and launched at a quicker pace.

Which of the above statements is/are correct?

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

23) Consider the following pairs regarding India's missile system.

- 1. Nag : Anti-Tank Guided missile
- 2. Akash : Surface to air missile
- 3. Astra : New Generation Anti-Radiation

Missile

- 4. Rudram : Beyond Visual Range Air-to-Air

Missile

Which of the above pairs is/are correctly matched?

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

24) The term 'Grey Zone Operations' is associated with

- a) Non-Proliferation of Nuclear Weapons
- b) Early warning system of tropical storms
- c) Cyber Warfare
- d) Strategic intervention to prevent malnutrition

25) Consider the following statements.

1. Six Scorpene submarines are being built under Project-75 by Mazagon Dock Shipbuilders Limited (MDL) under technology transfer from Naval Group of France.

2. All the Scorpene submarines have Air Independent Propulsion (AIP) modules included in them.

3. INS Arihant Is India's first indigenous nuclear ballistic missile submarine.

Which of the above statement sis/are correct?

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

26) Rare earth metals have its applications in which of the following areas?

- 1. Fiber Optics
- 2. Petroleum Refining
- 3. X-ray imaging
- 4. Water Treatment
- 5. Magnetic resonance imaging (MRI)

Select the correct answer code:

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

d) 1, 2, 3, 4, 5

27) Consider the following statements regarding Antimicrobial Resistance.

1. Antimicrobial Resistance is the ability of a microbe to resist the effects of medication.
2. They can spread between people and animals, including from food of animal origin, and from person to person.
3. Antimicrobial resistant-microbes does not occur naturally.

Which of the above statements is/are correct?

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

28) Metamaterial, sometimes seen in news, is an object that gains its electrical properties from its

- a) Temperature
- b) Constituent materials
- c) Change of phase
- d) Internal microstructures

29) Consider the following statements regarding Randomized controlled trial.

1. Randomized controlled trials (RCT) are prospective studies that measure the effectiveness of a new intervention or treatment.
2. Randomized controlled trials are used to understand whether a free grains distribution scheme helped improve the nutrition levels among people living in a district.
3. Examples of RCTs are clinical trials that compare the effects of drugs and surgical techniques.

Which of the above statements is/are correct?

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

30) Consider the following statements about Bioremediation Technology.

1. Bioremediation is the use of living microorganisms to degrade the environmental contaminants into less toxic forms.
2. Genetic engineering can be used to create microorganisms specifically designed for Bioremediation.
3. One of the advantages of Bioremediation is that it is effective in all environmental conditions.

Which of the above statements is/are correct?

- a) 2, 3

b) 2 only

c) 1, 2

d) 1, 3

31) Consider the following statements regarding nuclear fusion and nuclear fission.

1. Nuclear fusion reactions happen only at very low temperatures, say cryogenic temperature range.
2. Nuclear fusion is a carbon-free source of energy, and has negligible radiation risks.
3. Substantially more amount of energy is released in fission process than fusion.

Which of the above statements is/are correct?

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

32) Consider the following statements regarding INS Mormugao that was commissioned into the Indian Navy recently.

1. INS Mormugao is a stealth-guided missile destroyer built by Mazagon Dock Shipbuilders Limited (MDSL)
2. The ship has 100 per cent indigenous content.
3. It is built under Project 15B.

Which of the above statements is/are correct?

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

33) Which of the following diseases can be caused through biological warfare?

1. Smallpox
2. Botulism
3. Anthrax
4. Plague

Select the correct answer code:

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

34) Consider the following statements regarding BrahMos Missile.

1. BrahMos is a supersonic surface-to-surface cruise missile.
2. It is developed through a joint venture between India and United States.
3. The missile derives its name from Brahmaputra and Moskva rivers.

INSTA STATIC QUIZ QUESTIONS

Which of the above statements is/are correct?

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

35) Consider the following statements regarding Internet of Things (IoT), sometimes seen in news.

1. It is an inter-networking of physical devices, vehicles and buildings embedded with electronics, software, sensors and network connectivity.
2. It has the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.
3. At present it works only on Virtual Private Networks (VPNs).

Which of the above statements is/are correct?

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

36) Consider the following statements regarding DNA and RNA.

1. A nucleic acid containing deoxyribose is called DNA while that containing ribose is called RNA.
2. Both DNA and RNA contain Adenine, Guanine, Thymine and Cytosine.
3. The structure of DNA is a double strand [helix] whereas RNA is a single strand molecule.

Which of the above statements is/are correct?

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

37) Synthetic biology is used to produce which of the following?

1. Produce biofuels.
2. Microorganisms harnessed for bioremediation to clean pollutants from our water, soil and air.
3. Rice modified to produce beta-carotene.
4. Yeast engineered to produce rose oil

Select the correct answer code:

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

38) Consider the following statements regarding Artificial insemination and In Vitro Fertilization.

1. Artificial insemination technique consists of retrieving a woman's eggs to be fertilized in the laboratory.

2. In Vitro Fertilization technique introduces previously selected semen into the woman's uterus that has been prepared by stimulating ovulation.

Which of the above statements is/are incorrect?

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

39) Consider the following statements regarding Stem cells.

1. Stem cells are unspecialized cells capable of renewing themselves through cell division.

2. When a stem cell divides, each new cell has the potential either to remain a stem cell or become another type of cell with a more specialized function.

3. Induced pluripotent stem cells (iPSCs) are adult cells that have been genetically reprogrammed to an embryonic stem cell-like state.

Which of the above statements is/are correct?

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

40) Consider the following statements.

1. The process of copying genetic information from one strand of the DNA into RNA is termed as transcription.

2. Bacteria contain only mRNA (messenger RNA) and do not have any tRNA (transfer RNA).

3. RNAs are not needed to synthesise a protein in a cell.

Which of the above statements is/are correct?

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

41) Which of the following are the applications of CRISPR technology?

1. Genetic sequences of disease-causing organisms can be altered to make them ineffective.

2. Diseases and disorders including some forms of cancer caused by an undesired genetic mutation can be fixed.

3. Genes of plants can be edited to make them withstand pests.

Select the correct answer code:

INSTA STATIC QUIZ QUESTIONS

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

42) Genetically Modified foods are derived from plants whose genes are artificially modified, usually by inserting genetic material from another organism, in order to give it a new property, such as

1. Improve its nutritional value
2. Tolerance to herbicide
3. Resistance to disease or drought
4. Increased yield

Select the correct answer code:

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

43) Why are Bacteriophages seen as a possible therapy against multi-drug-resistant strains of many bacteria?

1. These are ubiquitous viruses found wherever bacteria exist and can kill bacteria.
2. They do not contain any RNA or DNA and thus cannot be infected by bacteria.

Select the correct answer code:

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

44) Normal cells show a property called "contact inhibition". This property is helpful in regulating

- a) Uncontrolled growth of cells
- b) Storage of fat component for emergency situations
- c) Amount of energy entering and leaving the cells
- d) All of the above

45) DNA Profiling is used in which of the following areas?

1. Genealogical research
2. Parentage testing
3. Criminal investigations
4. Study of animal and plant populations

Select the correct answer code:

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

46) Consider the following pairs regarding Vitamin and mineral deficiency related diseases.

1. Vitamin B1 : Beriberi
2. Vitamin A : Night blindness
3. Vitamin C : Rickets
4. Iron deficiency : Anaemia

Which of the above pairs is/are correctly matched?

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

47) Consider the following statements regarding Mucormycosis.

1. Mucormycosis is a fungal infection caused by a group of molds called mucormycetes.
2. Soil, plants, manure, and decaying fruits and vegetables are the common sources of infection.
3. It affects the sinuses, the brain and the lungs and can be life-threatening in diabetic and cancer patients.

Which of the above statements is/are correct?

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

48) Consider the following statements regarding Allergies.

1. An allergy is an immune system response to a foreign substance that's not typically harmful to the body.
2. The body's response depends on the type of the allergen it has encountered.
3. The allergens can include certain foods, pollen, or pet dander.

Which of the above statements is/are correct?

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

49) Consider the following statements regarding Alzheimer's disease.

1. It is a progressive brain disorder that typically affects older people.
2. It does not affect the ability to perform day-to-day activities.
3. There is no cure for Alzheimer's disease.

Which of the above statements is/are correct?

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

50) Consider the following statements regarding Rice bran oil, which has gained popularity in recent times.

1. Rice bran oil is the oil extracted after the rice is dried and heated at high temperature.
2. It is rich in Oryzanol, which is proven to reduce bad cholesterol and increase good cholesterol.
3. It does not include any saturated fatty acids, monounsaturated fats and polyunsaturated fats.

Which of the above statements is/are correct?

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

51) Pentavalent vaccine protects against which of the following diseases?

1. Pertussis
2. Tetanus
3. Hepatitis-C
4. Diphtheria

Select the correct answer code:

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

52) Acinetobacter baumannii, Enterococcus faecalis, Escherichia coli are

- a) Drugs administered to livestock as painkillers/anti-inflammatory drugs.
- b) Vectors that cause Dengue and Malaria
- c) Pathogens that have the ability to develop resistance to antibiotics.
- d) None of the above

53) Consider the following statements regarding Vitamin D deficiency.

1. Vitamin D deficiency is often associated with rickets.
2. In rickets, the bone tissue does not correctly mineralise calcium and phosphorus, leading to softening of bones resulting in skeletal deformities.
3. Vitamin D plays a crucial role in depression, mood swings, anxiety and sleep quality.

Which of the above statements is/are correct?

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

54) Consider the following statements.

1. Dengue is a viral infection transmitted to humans through the bite of infected female mosquitoes.
2. When a mosquito bites, it not only sucks blood but also secretes saliva that enters blood stream.
3. Specific medications and vaccine are available to treat dengue.

Which of the above statements is/are correct?

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

55) Consider the following statements regarding Trans fats.

1. All-natural fats and oils are a combination of monounsaturated, polyunsaturated and saturated fatty acids.
2. Trans fatty acids are formed during industrial partial hydrogenation of vegetable oil.
3. High intake of Trans fats reduces low density lipoproteins (LDL) and insulin levels.

Which of the above statements is/are correct?

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

56) Consider the following statements regarding Machine to Machine communications (M2M).

1. Machine to Machine communications refer to automated applications which involve machines or devices communicating through a network without human intervention.
2. It enables data to be transmitted from one device to another device through wired and wireless communications networks.

Which of the above statements is/are incorrect?

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

57) Ailments not caused by Virus are

1. Severe acute respiratory syndrome (SARS)
2. Dysentery
3. Typhoid
4. Influenza

Select the correct answer code:

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

d) 1, 3

58) Near Field Communications (NFC) technology is used in which among the following applications?

1. Baggage identification in Airports
2. Contactless card payment
3. Keyless Access to doors and vehicles
4. Metro train cards

Select the correct answer code:

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

59) Pneumoconiosis, sometimes seen in news is related to

- a) High blood glucose levels
- b) Black lung disease
- c) Tuberculosis
- d) High levels of fat in the blood

60) Consider the following statements regarding Dry ice.

1. Dry ice is the solid form of carbon dioxide.
2. It has higher temperature than that of water ice.
3. It is used to prevent insect activity in closed containers of grains and grain products.

Which of the above statements is/are correct?

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

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