

# **GS|SCORE**

**AN INSTITUTE FOR CIVIL SERVICES**

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## **TEST BOOKLET**

# **ALL INDIA OPEN MOCK TEST**

## **GENERAL STUDIES PAPER - I**

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***Time Allowed: Two Hours***

***Maximum Marks: 200***

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### **INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number carefully without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. You have to enter your Roll Number on the test booklet in the Box provided alongside. **DO NOT** write anything else on the Test Booklet.
4. This Test Booklet contains **100** items (questions). Each item is printed in English. Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. All items carry equal marks. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
6. Before you proceed to mark in the Answer Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admission Certificate.
7. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer Sheet**. You are permitted to take away with you the Test Booklet.
8. Sheets for rough work are appended in the Test Booklet at the end.
9. If there is any sort of mistake either of printing or of factual nature in any question, then out of the English and Hindi version of the question, the English version will be treated as standard.
10. **Penalty for wrong answers:**

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.

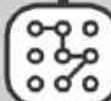
- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no** penalty for that question.

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1. Consider the following environmental conventions:

|    | <b>Convention</b>    | <b>Purpose</b>   |
|----|----------------------|--|
| 1. | Basel Convention     | Prior Informed Consent Procedure for hazardous Chemicals and Pesticides in international trade |
| 2. | Vienna Convention    | Protection of the Ozone Layer  |
| 3. | Stockholm Convention | Related to Persistent organic Pollutants   |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

2. Consider the following statements regarding ozone depletion:

- 1. One chlorine atom can destroy over 100,000 ozone molecules before it is removed from the stratosphere.
- 2. Not all chlorine and bromine sources contribute to ozone layer depletion.

Which of the above statement is/are **incorrect**?

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

3. Consider the following pairs:

|    | <b>Educational Institutes</b>         | <b>Founder</b>  |
|----|---------------------------------------|-----------------|
| 1. | Sanskrit College at Benaras           | Warren Hastings |
| 2. | Fort William College                  | Lord Wellesley  |
| 3. | Calcutta Madarsa                      | Jonathan Duncan |
| 4. | Asiatic Society for Oriental learning | William Jones   |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

4. With reference to an Anticipatory Bail, consider the following statements:

- 1. It is a direction issued to release a person on bail even before the person is arrested.
- 2. In cases of non-bailable offences, an anticipatory bail can be granted as a matter of right.
- 3. It can be issued only by the Sessions Court and High Court.

Which of the above statements are correct?

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

5. With reference to the Civil Services Board (CSB) at state level, consider the following statements:

- 1. A Civil Service Board at the state level is a statutory body.
- 2. The board does not have the authority to examine transfers of civil servants.
- 3. It is headed by the Chief Secretary of the state.

How many of the statements given above is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

6. Consider the following countries:

- 1. Australia
- 2. New Zealand
- 3. Indonesia
- 4. Papua New Guinea
- 5. Solomon Islands

Which of the above countries are included in the “Coral Triangle”?

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

**7.** If a Money Bill is reserved by the Governor of a State for the consideration of the President. The President may:

1. Give his assent to the Bill
2. Withhold his assent to the Bill
3. Direct the Governor of the State to return it to the House for reconsideration

Which of the above statements is/are correct?

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

**8.** Consider the following statements regarding Sthanakvasi:

1. It is a sub-sect of Digambara sect in Jainism.
2. They practice their religious duties in temples.
3. They do not believe in idol-worship at all.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**9.** Consider the following statements regarding Mahajanpadas in 6<sup>th</sup> Century B.C:

1. The 1<sup>st</sup> capital of Magadha was Patliputra which was later shifted to Rajgir.
2. The use of bronze armaments was one of the reasons for the rise of Mahajanpadas.
3. Bimbisara of Haryanka dynasty took the title of 'ekarat', the sole sovereign.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**10.** Consider the following statements regarding Society in Gupta period:

1. As the Guptas were Vaishyas, the supremacy of the Brahmanas declined during this period.

2. The Greeks settled in the Indian subcontinent were expatriated back to their land.
3. Some of the tribals were given the status of shudras.

How many of the statements given above is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**11.** Consider the following regions of the Earth:

1. Mantle
2. Inner Core
3. Outer Core
4. Asthenosphere
5. Lithosphere

How many of the above regions are included in Barysphere?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All five

**12.** With reference to anticyclones, consider the following statements:

1. They circulate anticlockwise in northern hemisphere and clockwise in southern hemisphere.
2. Surface-based anticyclone systems result in warm air masses and clear skies.
3. They are violent and bring destruction in their way.

Which of the above statements is/are correct?

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

**13.** With reference to Credit Default Swaps, consider the following statements:

1. It is a financial derivative or contract that allows an investor to “swap” or offset his or her credit risk with that of another investor.
2. It is a form of insurance that a bond investor buys against potential defaults by a corporation.

Which of the above statements is/are correct?

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

- 14.** With reference to the ‘Swadeshi Movement’, consider the following statements:

1. The Indian National Congress meeting in 1905 presided by Gopal Krishna Gokhale did not support the Swadeshi Movement of Bengal.
2. Swadeshi Sangam was formed in Uttar Pradesh to inspire the local masses.
3. The Bengal National College inspired by Tagore’s Shantiniketan, was set up with Aurobindo Ghosh.

How many of the statements given above is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

- 15.** Consider the following provisions of the Anti-Defection Law:

1. A legislator is disqualified if he/she voluntarily give up their party membership.
2. A legislator is disqualified if he/she vote or abstain from voting against the direction of their party.
3. A legislator can be disqualified for forming a group with two-thirds of members of his/her political party.
4. The Speaker must decide disqualification cases within three months.

How many of the above provisions are correct?

- (a) Only one
- (b) Only two

- (c) Only three
- (d) All four

- 16.** Consider the following information regarding different animal species:

|    | <i>Species</i>     | <i>Conservation Status</i> | <i>Region</i> |
|----|--------------------|----------------------------|---------------|
| 1. | Red Fox            | Endangered                 | Himalayas     |
| 2. | Indian Rhinoceros  | Vulnerable                 | Assam         |
| 3. | Asiatic Lion       | Endangered                 | Rajasthan     |
| 4. | Wild Water Buffalo | Least concern              | Gujarat       |

In how many of the above rows is the given information correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

- 17.** Consider the following pairs regarding different types of carbon with their sources:

|    | <i>Carbon Type</i> | <i>Source</i>                                      |
|----|--------------------|--|
| 1. | Grey Carbon        | Industrial emissions                               |
| 2. | Black Carbon       | Released from burning fossil fuels                 |
| 3. | Green Carbon       | Stored in oceanic ecosystems                       |
| 4. | Red Carbon         | Released from biological particles reducing albedo |

How many of the following pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

- 18.** With reference to capital account consider the following statements:

1. Foreign direct investment (FDI) in Indian stock exchanges.
2. Indian companies issuing bonds to foreign investors.
3. Domestic investors buying shares of Indian companies in the stock market.

Which of the following capital market activities impact the Capital Account of India's Balance of Payments (BoP)?

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

**19.** Consider the following statements about Isostasy:

1. It is a gravitational equilibrium between the crust and the mantle.
2. Isostasy is a dynamic geological process involving seismic activity.
3. Disturbances in isostatic balance can occur due to glacial melting, sedimentation, or erosion.
4. Isostasy helps maintain vertical balance of Earth's crust.

How many of the above statements are correct?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**20.** Consider the following pairs:

|    | <b>Exercise</b>  | <b>Country</b>      |
|----|------------------|---------------------|
| 1. | Nomadic Elephant | India and Mongolia  |
| 2. | Indra            | India and Nepal     |
| 3. | Exercise MAITREE | India-Thailand      |
| 4. | Udara Shakti     | India and Malaysia. |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**21.** Which of the following countries are part of lithium triangle?

- (a) Argentina, Bolivia and Chile
- (b) Bolivia, Peru and Chile
- (c) Argentina, Peru and Chile
- (d) Bolivia, Peru and Argentina

**22.** Which one of the following statements is correct regarding *microRNA*?

- (a) MicroRNA directly binds DNA to regulate gene expression.
- (b) MicroRNA is translated into proteins to control gene function.
- (c) MicroRNA prevents mRNA from being translated into proteins or causes its degradation.
- (d) MicroRNA is involved in protein synthesis within ribosomes.

**23.** Consider the following statements regarding the Higgs Field:

1. The Higgs Field is responsible for giving mass to all elementary particles through their interaction with it.
2. The strength of interaction between an elementary particle and the Higgs Field determines its electric charge.

Which of the above statements is/are correct?

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

**24.** Consider the following pairs related to Indus Valley Civilization:

|    | <b>Sites</b> | <b>Related with</b>                               |
|----|--------------|---|
| 1. | Chanhudaro   | Bead making factory                               |
| 2. | Rangpur      | Northernmost Harappan site in Himalayan foothills |
| 3. | Mohenjo-Daro | Great Bath  |
| 4. | Manda        | Seaport   |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**25.** Consider the following statements regarding Ramjet and Scramjet engines:

1. Ramjets work efficiently at supersonic speeds, typically around Mach 3.
2. Scramjets operate efficiently at hypersonic speeds beyond Mach 5.
3. Both Ramjets and Scramjets can generate thrust even at zero velocity.

Which of the statements given above is/are correct?

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

**26.** Consider the following information:

|    | <i>Waterfall</i> | <i>River</i>     | <i>State</i> |
|----|------------------|------------------|--------------|
| 1. | Kunchikal falls  | Varahi river     | Karnataka    |
| 2. | Jog falls        | Sharavathi river | Kerala       |
| 3. | Jonha falls      | Raru river       | Jharkhand    |

In how many of the above rows is the given information correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**27.** Consider the following statements regarding different types of forests:

1. Despite having appropriate temperature and rainfall, Meghalaya does not have tropical evergreen forest as it lies above the tropic of cancer.
2. Mahogany, Rosewood and Bamboo are the trees of tropical deciduous forests.
3. Silver fir is found in montane forests.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**28.** Which of the following statements is/are correct regarding the federal system of India and USA?

1. In India, single system of courts enforces both the central laws as well as the state laws.
2. In USA, the federal laws are enforced by the federal judiciary and the state laws are enforced by the state judiciary.
3. India has a single constitution whereas USA has a separate constitution for each state.

Select the correct answer using the code given below:

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

**29.** Consider the following statements:

1. The Indian Constitution does not provide for a secretarial staff for each House of Parliament.
2. The Secretary General assists the Speaker/Chairman in the discharge of their constitutional and statutory responsibilities.
3. The Secretary General holds the rank equivalent to the Cabinet Secretary.

Which of the above statements is/are correct?

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

**30.** Consider the following statements regarding the Cultural developments under the Mughals:

1. The mausoleum at Sasaram in Bihar was built during the reign of Akbar.
2. During Akbar's reign, the Humayun's tomb was built at Delhi.
3. The portrait painting and paintings of animals reached its climax during the reign of Akbar.

Which of the above statements is/are correct?

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

**31.** Consider the following information:

|    | <i>River</i> | <i>Origin</i>      | <i>Tributary of</i> |
|----|--------------|--------------------|---------------------|
| 1. | Son          | Amarkantak Plateau | Ganga               |
| 2. | Gandak       | Himal Glacier      | Yamuna              |
| 3. | Tawa         | Satpura Range      | Sabarmati           |

In how many of the above rows is the given information correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**32.** Consider the following statements with regard to anti-dumping duty:

1. Dumping is said to occur when the goods are exported by a country to another country at a price lower than its normal value.
2. Anti-dumping duty cannot be levied on a retrospective basis.
3. The levy of anti-dumping duty is both exporter specific and country specific.
4. The anti-dumping duty shall remain in force for a period of five years from the date of imposition of duty.

Which of the above statements are correct?

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

**33.** Who among the following started “*Balhatya Pratibandhak Griha*”, a home for the prevention of infanticide?

- (a) Irawati Karve
- (b) Jyotirao and Savitribai Phule
- (c) Ishwar Chandra Vidyasagar
- (d) Mehtaji Durgaram

**34.** Consider the following pairs:

|    | <i>Source</i>    | <i>Acid</i>    |
|----|------------------|----------------|
| 1. | Tamarind         | Oxalic acid    |
| 2. | Sour milk (Curd) | Lactic acid    |
| 3. | Nettle sting     | Methanoic acid |
| 4. | Tomato           | Tartaric acid  |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**35.** Consider the following pairs:

|    | <i>Board</i>  | <i>Headquarter</i> |
|----|---------------|--------------------|
| 1. | Tea Board     | Kolkata            |
| 2. | Coconut Board | Tamil Nadu         |
| 3. | Jute Board    | Delhi              |
| 4. | Coffee Board  | Karnataka          |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**36.** Consider the following countries:

1. Japan
2. USA
3. Australia
4. Germany
5. Canada

How many of the countries mentioned above are part of five eyes alliance?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All five

**37.** Consider the following information regarding Tribal revolts:

|    | <i>Tribal rebellion</i> | <i>Area</i>      | <i>Leader</i>                   |
|----|-------------------------|------------------|---------------------------------|
| 1. | Chuar Uprising          | Chota Nagpur     | Durjan Singh                    |
| 2. | Mappila Revolt          | Coromandel Coast | Variyamkunnath Kunjahammed Haji |
| 3. | Santhal uprising        | Rajmahal Hills   | Sidhu and Kanhu Murmu           |

How many of the above rows is the given information correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**38.** With reference to Carnatic Music, consider the following statements:

1. It is prospered in the south Indian states of Tamil Nadu, Kerala, Andhra Pradesh and Karnataka.
2. Thyagaraja is considered to be the father of Carnatic music.
3. Shamashastri is one of the “trinity” of Carnatic music.

Which of the above statements is/are correct?

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

**39.** With reference to the Parts of the Indian Constitution, consider the following pairs:

| No. | Part of the Constitution | Subject Matter                               |
|-----|--------------------------|--|
| 1.  | Part VI                  | The States                                   |
| 2.  | Part XI                  | Relations between the Union and the States   |
| 3.  | Part XII                 | Trade, Commerce and Intercourse within India |
| 4.  | Part IXA                 | Municipalities                               |

How many of the above pairs are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**40.** With reference to the rules imposed by the Securities and Exchange Board of India (SEBI), consider the following statements:

1. SEBI mandates that every listed company in India must have at least two women directors on its board.
2. SEBI requires mutual funds to disclose the names and holdings of their portfolio every month.

Which of the statements given above is/are correct?

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

**41.** With reference to the phenomenon of cloudburst, consider the following statements:

1. A cloudburst refers to sudden and extremely heavy rainfall over a localized area, usually within a short duration.
2. The India Meteorological Department (IMD) defines a cloudburst event as rainfall exceeding 100 mm within an hour over an area of roughly 20–30 square kilometers.

Which of the statements given above is/are correct?

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

**42.** With reference to the Indian economy, “Government Securities (G-Secs)” are the instruments of:

- (a) Money market
- (b) Forex market
- (c) Bond market
- (d) Derivatives market

**43.** Consider the following statements:

**Statement-1:**

The International Atomic Energy Agency (IAEA) works to promote the peaceful use of nuclear energy while preventing its use for military purposes.

**Statement-2:**

The IAEA was established as a specialized agency of the United Nations in 1957 and reports directly to the UN General Assembly and the Security Council.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-1 and Statement-2 are correct and Statement-2 is the correct explanation for Statement-1
- (b) Both Statement-1 and Statement-2 are correct and Statement-2 is not the correct explanation for Statement-1
- (c) Statement-1 is correct but Statement-2 is incorrect
- (d) Statement-1 is incorrect but Statement-2 is correct

**44.** Which one of the following best describes the role of an *Amicus Curiae* in the Indian judicial system?

- (a) A court-appointed advocate who assists the court.
- (b) A legal officer representing the Union Government in the Supreme Court.
- (c) A special judge appointed to monitor the implementation of court orders.
- (d) An arbitrator chosen by both disputing parties to resolve a case outside the court.

**45.** Consider the following concepts:

1. Schrödinger Equation
2. Quantum Field Theory
3. Pauli Exclusion Principle
4. Heisenberg Uncertainty Principle

How many of the above are included in Quantum Physics?

- (a) Only two
- (b) Only three
- (c) All four
- (d) Only one

**46.** Wallacean Hominids, recently seen in the news, refers to which of the following?

- (a) An extinct group of ancient human species found in Indonesia
- (b) A tribe residing in the Amazon rainforest
- (c) A newly discovered primate species in Madagascar
- (d) A genetic lineage of modern humans in Africa

**47.** With reference to officials in the Magadha Empire, consider the following pairs:

| No. | Official      | Function            |
|-----|---------------|---------------------|
| 1.  | Sannidhata    | Treasurer           |
| 2.  | Samartha      | Head of agriculture |
| 3.  | Sitadhyaksha  | Revenue collector   |
| 4.  | Panyadhyaksha | Head of trade       |

How many of the above pairs are correctly matched?

- (a) Only one
- (b) Only two

- (c) Only three
- (d) All four

**48.** What is Drake Passage?

- (a) A narrow strait connecting the Mediterranean Sea with the Atlantic Ocean through the Strait of Gibraltar.
- (b) A sea route between South America and Antarctica, connecting the Atlantic and Pacific Oceans.
- (c) A channel separating the Arabian Peninsula from the Horn of Africa, linking the Red Sea with the Arabian Sea.
- (d) A passage between Alaska and Russia, connecting the Arctic Ocean with the Bering Sea.

**49.** In the context of ecology, the term 'Defaunation' refers to

- (a) the loss of plant species due to deforestation and habitat destruction
- (b) the decline or extinction of animal species from ecosystems due to human or natural causes
- (c) the process of removing invasive species from a forest ecosystem to restore balance
- (d) the degradation of soil fertility because of overgrazing by wild herbivores

**50.** Consider the following statements:

**Statement-1:**

CRISPR gene editing allows scientists to precisely cut and modify sections of DNA within organisms.

**Statement-2:**

CRISPR technology is based on a natural defense mechanism found in bacteria against viruses.

**Statement-3:**

One of the major concerns regarding CRISPR is the possibility of unintended genetic changes.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement 2 and Statement 3 are correct and both of them explain Statement 1
- (b) Both Statement 1 and Statement 2 are correct and Statement 2 explains Statement 1

- (c) Only one of the Statements 2 and 3 is correct and that explains Statement 1
- (d) Neither Statement 2 nor Statement 3 is correct

**51.** Consider the following statements:

1. Current account convertibility of the Indian Rupee allows free conversion of the Rupee for trade in goods and services.
2. India has achieved full current account convertibility.
3. Restrictions on capital account convertibility are primarily to safeguard against sudden capital flight and financial instability.

Which of the statements given above are correct?

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

**52.** With reference to the revenue receipts of a country, consider the following:

1. Interest receipts on loans given by the government
2. Disinvestment proceeds from Public Sector Enterprises (PSEs)
3. Borrowings from the Reserve Bank of India (RBI)
4. Fees and fines collected by the government
5. Grants-in-aid from foreign governments

How many of the above are treated as revenue receipts?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All five

**53.** Consider the following statements:

**Statement-1:**

In thermodynamics, entropy is often associated with the measure of disorder or randomness in a system.

**Statement-2:**

The Second Law of Thermodynamics states that in an isolated system, entropy tends to increase over time.

**Statement-3:**

The increase in entropy explains why natural processes such as heat flowing from hot to cold are irreversible.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement 2 and Statement 3 are correct and both of them explain Statement 1
- (b) Both Statement 2 and Statement 3 are correct but only one of them explains Statement 1
- (c) Only one of the Statements 2 and 3 is correct and that explains Statement 1
- (d) Neither Statement 2 nor Statement 3 is correct

**54.** Suppose the merchandise exports of a country are worth 50 billion dollars and the merchandise imports are worth 70 billion dollars. The country also receives remittances worth 25 billion dollars and pays out 5 billion dollars as interest on external borrowings. The capital account shows a net inflow of 10 billion dollars.

Which of the following statements are correct?

1. The trade deficit is 20 billion dollars.
2. The current account balance is in surplus of 0 billion dollars (i.e., balanced).
3. The overall Balance of Payments is in surplus of 10 billion dollars.

Select the correct answer using the code given below:

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

**55.** Consider the following countries:

1. India
2. Russia
3. Kazakhstan
4. Belarus
5. Turkey

How many countries amongst the above are members of the Shanghai Cooperation Organisation (SCO)?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All five

**56.** With reference to books written by Indian leaders, consider the following pairs:

| No. | Author                  | Book               |
|-----|-------------------------|--------------------|
| 1.  | Rajendra Prasad         | India Divided      |
| 2.  | Maulana Abul Kalam Azad | Hind Swaraj        |
| 3.  | Jawaharlal Nehru        | Discovery of India |
| 4.  | M. N. Roy               | Unhappy India      |

How many of the above pairs are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**57.** Consider the following:

- 1. President of India
- 2. Lok Sabha
- 3. Rajya Sabha

How many of the above together constitute the Indian Parliament?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) None

**58.** How many Law Commissions have been constituted by the Government of India till date?

- (a) Twenty-one
- (b) Twenty-two
- (c) Twenty-three
- (d) Twenty-four

**59.** Consider the following substances:

- 1. Hydrogen
- 2. Oxygen
- 3. Carbon dioxide

Green hydrogen technology can result in the production of how many of the above?

- (a) Only one
- (b) Only two
- (c) All the three
- (d) None

**60.** Consider the following Indian states/UTs:

- 1. Uttar Pradesh
- 2. Odisha
- 3. Andhra Pradesh
- 4. Chhattisgarh
- 5. Telangana

The 82.5° East meridian, which is taken as the Standard Meridian of India, passes through how many of the above?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All five

**61.** Phenology is best described as:

- (a) The study of soil composition and fertility in relation to crop productivity
- (b) The study of recurring biological events in plants and animals in relation to seasonal and climatic changes
- (c) The classification of plant species based on their genetic characteristics
- (d) The use of satellites to monitor vegetation cover on Earth

**62.** Consider the following statements regarding the High Seas Treaty (Agreement on Biodiversity Beyond National Jurisdiction):

**Statement-I:**

The treaty enables the creation of marine protected areas in international waters beyond any national jurisdiction.

**Statement-II:**

The treaty includes a provision mandating equitable benefit-sharing from deep-sea mineral exploitation.

**Statement-III:**

The treaty will enter into force only after ratification by at least 80 countries.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement II and Statement III are correct and both of them explain Statement I
- (b) Both Statement II and Statement III are correct but only one of them explains Statement I
- (c) Only one of the Statements II and III is correct and that explains Statement I
- (d) Neither Statement II nor Statement III is correct

**63.** Which of the following are the evidences of the phenomenon of El Niño?

1. The reversal or weakening of trade winds across the equatorial Pacific Ocean.
2. The rise of sea surface temperatures near the coast of Peru and Ecuador.
3. Droughts in Australia and Indonesia accompanied by heavy rainfall in parts of South America.

Select the correct answer using the code given below:

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

**64.** Which of the following statements about the Public Accounts Committee (PAC) are correct?

1. The PAC examines the audit reports of the Comptroller and Auditor General (CAG) after they are laid in Parliament.
2. The Chairman of the PAC is appointed by Union Finance Minister.
3. The PAC consists of 22 members, of which 15 are elected from the Lok Sabha and 7 from the Rajya Sabha.

Select the answer using the code given below:

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

**65.** What is the common characteristic of the technologies generally known as LIGO-India, SKA Observatory, and Event Horizon Telescope, which are sometimes talked about in media?

- (a) These are space-based telescopes used for planetary exploration
- (b) These are global science projects on gravitational waves, radio astronomy, and black holes
- (c) These are launch vehicles developed under the Gaganyaan human spaceflight mission
- (d) These are navigation systems developed to rival GPS

**66.** With reference to 'Carbon Sequestration', which of the following statements is/are correct?

1. It refers to the process of capturing and storing atmospheric carbon dioxide in plants, soils, and geologic formations.
2. Afforestation and reforestation are considered natural methods of carbon sequestration.
3. Carbon capture and storage (CCS) in depleted oil and gas reservoirs is a technological form of carbon sequestration.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 2 and 3 only
- (c) 1, 2 and 3
- (d) None of the above

**67.** Consider the following statements:

1. Bacteria lack a membrane-bound nucleus.
2. Some bacteria can fix atmospheric nitrogen in the soil.
3. All bacteria reproduce only by binary fission and have no other modes of genetic exchange.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**68.** Consider the following statements:

**Statement-I:**

The western boundary currents of subtropical gyres (e.g., Gulf Stream, Kuroshio) are warmer, faster, and deeper than the eastern boundary currents.

**Statement-II:**

Western intensification produces stronger, narrower currents along the western sides of ocean basins.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement I and Statement II are correct and Statement II explains Statement I
- (b) Both Statement I and Statement II are correct but Statement II does not explain Statement I
- (c) Statement I is correct but Statement II is not correct
- (d) Statement I is not correct but Statement II is correct

**69.** Consider the following bodies:

1. International Court of Justice
2. Economic and Social Council
3. Secretariat
4. Security Council
5. Trusteeship Council

How many of the above are main organs of the United Nations?

- (a) Only two
- (b) Only three
- (c) Only four
- (d) All the five

**70.** Consider the following statements:

**Statement-I:**

India does not import apples from the United States of America.

**Statement-II:**

In India, the law prohibits the import of Genetically Modified food without the approval of the competent authority.

Which one of the following is correct in respect of the above statements?

- (a) Both Statement-I and Statement-II are correct and Statement-II explains Statement-I

- (b) Both Statement-I and Statement-II are correct, but Statement-II does not explain Statement-I

- (c) Statement-I is correct, but Statement-II is incorrect

- (d) Statement-I is incorrect, but Statement-II is correct

**71.** In India, the central bank's function as the 'lender of last resort' usually refers to which of the following?

1. Lending to trade and industry bodies when they fail to borrow from other sources
2. Providing liquidity to the banks having a temporary crisis
3. Lending to governments to finance budgetary deficits

Select the correct answer using the code given below:

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

**72.** With reference to India's defence, consider the following pairs:

| Aircraft Type                | Description                 |
|------------------------------|-----------------------------|
| I. Dornier-228               | Maritime patrol aircraft    |
| II. IL-76                    | Supersonic combat aircraft  |
| III. C-17<br>Globemaster III | Military transport aircraft |

How many of the pairs are correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**73.** Which one of the following is synthesised in human body that dilate blood vessels and increases blood flow?

- (a) Nitric oxide
- (b) Nitrous oxide
- (c) Nitrogen dioxide
- (d) Nitrogen Pentoxide

**74.** Consider the following information:

|    | <i>Region</i> | <i>Name of the mountain range</i> | <i>Type of mountain</i> |
|----|---------------|-----------------------------------|-------------------------|
| 1. | Central Asia  | Vosges                            | Fold mountain           |
| 2. | Europe        | Alps                              | Block mountain          |
| 3. | North America | Appalachians                      | Fold mountain           |
| 4. | South America | Andes                             | Fold mountain           |

In how many of the above rows is the given information correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**75.** One of the following regions hosts the world's largest rainforest, produces nearly 20% of the Earth's oxygen, and is often referred to as the "lungs of the planet." Its degradation poses a major threat to global climate stability. Which one of the following denotes that region?

- (a) Congo Basin
- (b) Amazon Basin
- (c) Mekong Basin
- (d) Orinoco Basin

**76.** Consider the following statements:

1. Narmada River flows through the Lonar Lake in Maharashtra.
2. Majuli, the world's largest river island, is located on the Brahmaputra River.
3. Mahanadi River feeds Chilika Lake in Odisha.

How many of the statements given above are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**77.** Consider the following materials:

1. Agricultural residues
2. Corn grain

3. Wastewater treatment sludge
4. Wood mill waste

Which of the above can be used as feedstock for producing Sustainable Aviation Fuel?

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

**78.** 'Invasive Species Specialist Group' (that develops Global Invasive Species Database) belongs to which one of the following organizations?

- (a) The International Union for Conservation of Nature
- (b) The United Nations Environment Programme
- (c) The United Nations World Commission for Environment and Development
- (d) The World-Wide Fund for Nature

**79.** With reference to 'Urban Cooperative Banks' in India, consider the following statements:

1. They are supervised and regulated by local boards set up by the State Governments.
2. They can issue equity shares and preference shares.
3. They were brought under the purview of the Banking Regulation Act, 1949 through an Amendment in 1966.

Which of the statements given above is/are correct?

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

**80.** Consider the following statements:

The effect of devaluation of a currency is that it necessarily

1. Improves the competitiveness of the domestic exports in the foreign markets
2. Increases the foreign value of domestic currency
3. Improves the trade balance

Which of the above statements is/are correct?

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

**81.** Consider the following pairs:

| <i>Industry</i>                          | <i>Location</i> |
|--|-----------------|
| 1. Hindustan Shipyard Limited            | Tamil Nadu      |
| 2. Bharat Aluminium Company Ltd. (BALCO) | Chhattisgarh    |
| 3. Manali Refinery                       | Bengaluru       |
| 4. Bharat Earth Movers Limited           | Visakhapatnam   |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**82.** Which of the following reports are released by the International Monetary Fund (IMF)?

1. World Economic Outlook
2. Global Wage Report
3. Fiscal Monitor (FM)
4. State of the World Reports
5. Ease of Doing Business
6. Global Financial Stability Report

Codes:

- (a) 1, 3 and 4 only
- (b) 2, 3 and 4 only
- (c) 1, 3 and 6 only
- (d) 3, 4 and 5 only

**83.** Regarding the Sulphur cycle, consider the following statements:

1. The weathering of rocks is the main source of the release of nutrients.
2. Once sulfur is exposed to the air, it combines with oxygen and becomes sulfate  $\text{SO}_4$ .
3. A sulfur metabolic pathway for bacteria is used to cure Tuberculosis.

4. Bacteria use sulfur or sulphate as an electron receptor in their respiration and release sulfide as waste.

How many of the statements given above is/are correct?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**84.** Consider the following statements regarding bioerosion:

1. Bioerosion refers to the process of erosion caused by living organisms, such as marine worms, mollusks, and sponges, breaking down and removing rock or coral substrate.
2. The primary mechanism of bioerosion in marine environments is physical abrasion, where organisms physically scrape or bore into the substrate.
3. Bioerosion is limited to marine environments and does not occur in terrestrial ecosystems due to differences in environmental conditions.

How many of the given statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**85.** Consider the following statements regarding the piezoelectric effect:

1. The piezoelectric effect is a phenomenon where certain materials generate an electric charge in response to mechanical stress.
2. This effect is reversible, meaning that applying an electric field to these materials can induce mechanical deformation.
3. It is not observed in normal liquids.

How many of the given statements are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**86.** Match the following:

| Type of Change | Description/ Meaning   |
|----------------|--|
| 1. Eustatic    | A. Adjustments in land and sea levels caused by the weight of geological features        |
| 2. Isostatic   | B. Global changes in sea level due to factors like climate change or melting ice.        |
| 3. Tectonic    | C. Earth's crustal movements resulting in changes to landforms and geological structures |

Select the correct code from the options given below:

- (a) 1-B, 2-A, 3-C
- (b) 1-A, 2-B, 3-C
- (c) 1-C, 2-A, 3-B
- (d) 1-B, 2-C, 3-A

**87.** Consider the following statements:

An ambassador of Shah Rukh of Persia, his visit to India includes describing the life and events in Calicut and Hampi, describing their wealth and immense grandeur. He wrote his travels in the Matla-us-Sadain wa Majma-ul-Bahrain, or The Rise of Two Auspicious Constellations and the Confluence of Two Oceans.

Which of the following travelers is being described above?

- (a) Al-Masudi
- (b) Abd al-Razzaq Samarqandi
- (c) Al Beruni
- (d) Ibn Battuta

**88.** The Tribal Areas of Chakma, Mara, and Lai in the Sixth Schedule of the Indian Constitution are part of which state?

- (a) Assam
- (b) Meghalaya
- (c) Tripura
- (d) Mizoram

**89.** Match the following pairs:

| Cities    | Country    |
|-----------|------------|
| 1. Kerman | — Syria    |
| 2. Aleppo | — Iran     |
| 3. Aden   | — Yemen    |
| 4. Oromia | — Ethiopia |

How many of the above pairs is/are correctly matched?

- (a) Only one
- (b) Only two
- (c) Only three
- (d) All four

**90.** Regarding the formation of Tilak Swaraj Fund during the Non-Cooperation Movement, consider the following statements:

- 1. During the Non-Cooperation Movement, the Congress committee announced the formation of the Tilak Swaraj Fund.
- 2. It was raised to pay homage to Bal Gangadhar Tilak on his first death anniversary.
- 3. It aimed at collecting Rs 1 crore to aid India's freedom struggle and resistance to British rule.

How many of the above statements is/are correct?

- (a) Only one
- (b) Only two
- (c) All three
- (d) None

**91.** Consider the following statements about Microbial Fuel Cells (MFCs):

- 1. Microbial fuel cells use bacteria to break down organic matter and generate electricity.
- 2. MFCs can operate at high temperatures similar to traditional combustion-based power plants.
- 3. The anode in a microbial fuel cell is where the reduction reaction takes place.

How many of the statements given above is/ are correct?

- (a) Only one
- (b) Only two

- (c) All three  
 (d) None

- 92.** Which of the following best describes the Cobweb Phenomenon in economics?
- It explains the formation of spider webs in agricultural fields.
  - It is a cyclic nature of supply and demand in certain markets.
  - It used to calculate the optimal price for agricultural commodities.
  - Cobweb mathematical formula for predicting crop yields based on weather patterns.

- 93.** There is a concern over the increase in harmful algal blooms in the seawaters of India. What could be the causative factors for this phenomenon?

- Discharge of nutrients from the estuaries.
- Run-off from the land during the monsoon.
- Upwelling in the seas.

Select the correct answer from the codes given below:

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

- 94.** Which of the following best describes a plasma wave?

- A type of electromagnetic radiation emitted by malfunctioning electrical appliances, causing interference with nearby electronic devices.
- High energy waves generated by the movement of charged particles in a gaseous medium are commonly observed during thunderstorms.
- Oscillations in the density and magnetic field of a plasma, often found in the Earth's ionosphere and magnetosphere.
- A phenomenon occurring in the atmosphere where gases ionize and emit colorful light, commonly known as the Northern Lights.

- 95.** Consider the following pairs:

| Lending Facility                    | Description  |
|-------------------------------------|--|
| 1. Extended Fund Facility (EFF)     | A program designed for low-income countries facing an urgent balance of payments need due to exogenous shocks or emergencies.                            |
| 2. Stand-By Arrangement (SBA)       | A financing arrangement primarily aimed at addressing medium-term balance of payments problems in member countries.                                      |
| 3. Rapid Financing Instrument (RFI) | A facility that provides assistance to countries with protracted balance of payments problems, offering longer-term financial support and policy advice. |

How many of the above pairs is/are correctly matched?

- Only one
- Only two
- All three
- None

- 96.** Consider the following statements:

- If a person is elected to both Houses of Parliament, he must intimate within 10 days in which house he desires to serve, otherwise both seats become vacant.
- If a person is elected to two seats in a House he must exercise his option for one, otherwise both seats become vacant.
- If a sitting member of a House is also elected to the other House, his seat in the first House becomes vacant.

How many of the statements given above is/are correct?

- Only one
- Only two
- All three
- None

- 97.** Which of the following best defines the “dogleg maneuver”?

- A golfing technique used to navigate around obstacles on the course.
- A spacecraft maneuver involving a sudden change in trajectory to avoid

- collision with space debris.
- (c) A rocket maneuver where the trajectory is altered to bypass specific geographical locations or obstacles.
- (d) A military tactic involving a sudden change in direction during aerial combat.
- 98.** Consider the following statements regarding Obelisks:
1. They are circular bits of genetic material that contain one or two genes and self-organise into a rod-like shape.
  2. They are very rare in nature.
  3. They are a type of virions (RNA virus)
- How many of the statements given above is/are correct?
- (a) Only one
- (b) Only two
- (c) All three
- (d) None
- 99.** Which of the following is/are the objective(s) of Competition Commission of India?
1. Ensure freedom of trade in the markets of India
  2. Promote and sustain competition
  3. Protect the interests of consumers
  4. Prohibit anti-competitive agreements
- Select the correct answer using the codes given below:
- (a) 4 only
- (b) 1 and 2 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4
- 100.** With respect to the National Legal Services Authority (NALSA), consider the following statements:
1. Indian constitution recognizes a directive to state to provide “free legal aid” for all, which is the objective of NALSA.
  2. The Chief Justice of India is the Patron-in-Chief and the senior most Judge of the Supreme Court of India is the Executive Chairman of the National Legal Services Authority.
  3. State Governments set the income limit for free legal services by the Authority for cases in courts other than the Supreme Court.
- How many of the statements given above is/are **incorrect**?
- (a) Only one
- (b) Only two
- (c) All three
- (d) None



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