

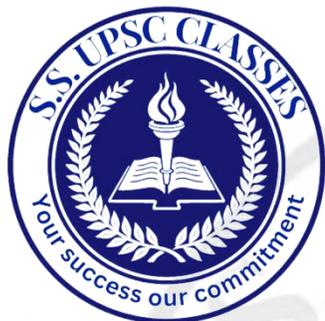
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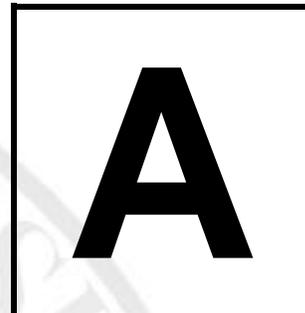
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**SSUPSC0038**

**Test Booklet Series**



**TEST BOOKLET**  
**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.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES CODE A, B, C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE ANSWER SHEET.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside this line. DO NOT write anything else on the Test Booklet.
4. This Test Booklet contains 100 questions. Each question 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.
6. 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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Q 1. In the first quarter of seventeenth century, in which of the following was/were the factory/factories of the English East India Company located?

1. Broach
2. Chicacole
3. Trichinopoly

Select the correct answer using the code given below:

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

Q 2. With reference to the Third Battle of Panipat (1761), consider the following statements:

1. The immediate cause of Ahmad Shah Abdali's invasion was primarily in response to the Maratha's expansion into Punjab region.
2. The battle marked the collapse and end of the Maratha empire.
3. The alliance of Ahmad Shah Abdali with the Rohilla Afghans of the Doab, and Shuja-ud- Daula, the Nawab of Awadh played a crucial role in his decisive victory over the Marathas.

Which of the statements given above are correct?

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

Q 3. Consider the following statements:

Statement-I: Placer deposits of gold exist along the Ghana coast in Africa despite the absence of source rocks in the region.

Statement-II: According to the Continental Drift theory, Africa and South America were once part of a single landmass known as Pangaea.

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

Q 4. Consider the following statements regarding celestial objects:

1. Asteroids are primarily found in the Kuiper Belt.
2. Meteors are remnants of comets or asteroids that burn up in Earth's atmosphere.
3. Comets are icy bodies of frozen gases mixed with rocky and metallic minerals.
4. Meteoroids are smaller fragments of asteroids or comets traveling through space.

Which of the statements given above are correct?

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

Q 5. During the Equinoxes, solar declination is:

- (a)  $0^\circ$
- (b)  $23.5^\circ$  North
- (c)  $23.5^\circ$  South
- (d)  $90^\circ$

Q 6. Consider the following statements with reference to the Schools of Buddhism:

1. Both the Madhyamika and Yogachara schools belong to the Hinayana School of Buddhism.
2. While Madhyamaka asserts the ultimate emptiness and conventional reality of all phenomena, Yogachara is idealistic.
3. While Asanga was the founder of Madhyamika school, Nagarjuna was the founder of the Yogachara school.

Which of the statements given above is/are correct?

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

Q 7. Consider the following statements with reference to the schools of Jainism:

1. Svetambaras believe both men or women can be Tirthankars.
  2. Digambaras believe that a true monk has no earthly emotions like possessiveness.
  3. While Digambaras follow the Pancha Mahavratas, Svetambaras follow only four restraints except Brahmacharya to attain Kaivalya.
- 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

Q 8. Which one of the following statements is not correct with reference to the Buddhist Sangha?

- (a) Its membership was open to all, irrespective of caste.
- (b) It had separate branches for men and women.
- (c) Slaves and children were prohibited from joining the Sangha.
- (d) It had a code of conduct for the monks with the power to punish the members.

Q 9. Consider the following:

1. Vinavasavadatta
2. Vikramorvashiyam
3. Raghuvansham

How many of the above literary works can be attributed to Kalidasa?

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

Q 10. With reference to Sankaradeva, consider the following statements:

1. He propagated the philosophy of 'Ekasarana Dharma' of exclusive refuge in one God.
2. He introduced the Sattriya dance in modern form in Assam.

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

Q 11. Which of the following statements regarding Indian philosophies is/are correct?

1. Advaita philosophy believes that the soul and God are the same.
2. Dvaita philosophy believes that the world is just a Maya (illusion).
3. Visishtadvaita philosophy says that the supreme reality has no attributes.

Select the correct answer using the code given below:

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

Q 12. Which of the following factors are responsible for food inflation in India?

1. Weather challenges
2. Rise of fuel prices
3. Russia-Ukraine conflict
4. Supply chain disruptions
5. Changing food habits

Select the correct answer using the code given below:

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

Q 13. With reference to the 'India VIX' index, consider the following statements:

1. It serves as a measure of market growth in the

longer term.

2. It is calculated by the Bombay Stock Exchange.
3. It is directly proportional with the growth in Indian share market.

How many of the above statements are correct?

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

Q 14. Which of the following actions are considered appropriate during an economic boom?

1. Increase in taxes
2. Decrease in public expenditure
3. Reduction in Repo rate

Select the correct answer using the code given below:

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

Q 15. Consider the following statements with reference to the velocity of money circulation:

1. It measures the number of times a unit of currency is used in transactions within a given time.
2. The high velocity of money circulation in a country indicates a low degree of inflation.
3. It is generally lower in expanding economies and higher in contracting economies.

Which of the statements given above is/are correct?

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

Q 16. Which one of the following is a production tax?

- (a) Land revenue
- (b) Export duties
- (c) Sales tax
- (d) Service tax

Q 17. Consider the following statements:

Statement-I: In periods of positive inflation, Real Gross Domestic Product (GDP) will always be higher than Nominal GDP.

Statement-II: Real GDP adjusts for changes in the price level.

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

Q 18. With reference to the 'Objectives Resolution of 1946', consider the following statements:

1. It advocated for adequate safeguards for minorities, backward and tribal areas.
2. It proclaimed India as an Independent Sovereign Republic.
3. It guaranteed social, economic and political justice to the people.

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

Q 19. Consider the following pairs:

Committee of the Constituent Assembly	Chairperson
1. Union Constitution Committee	Jawaharlal Nehru
2. Fundamental Rights Sub-Committee	H.C. Mukherjee
3. Minorities Sub-Committee	J.B. Kripalani

How many of the pairs given above are correctly matched?

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

Q 20. With reference to the making of the Constitution of India, consider the following statements:

1. The Constituent Assembly adopted 'Elephant' as its symbol (seal).
2. B.N. Rau was appointed as its Constitutional Advisor.
3. S.N. Mukherjee was the chief draftsman of the Constitution.
4. Nandalal Bose was the calligrapher of the Constitution.

How many of the statements given above are correct?

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

Q 21. Consider the following statements with reference to Guru Nanak:

1. He believed in monotheism.
2. He advocated a middle path for spiritual life.
3. He wrote the Dasam Granth that contains the code of conduct for the Khalsa community.

Which of the statements given above is/are correct?

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

Q 22. Consider the following statements with reference to Nathpanthi movement:

1. It was founded by Basava.
2. It challenged the prevalent caste system.
3. It has been recorded in Padmavat written by Malik Muhammad Jayasi.

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

Q 23. Consider the following statements with reference to the early medieval India:

1. The Brahmins had exemption from death sentence and taxation.
2. The Chandalas were among the Ashtashudras.
3. Antyajjas were below the four varnas of Indian society.

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

Q 24. Consider the following statements with reference to Neutrinos:

1. They have completely zero mass and no electric charge.
2. They travel at ten times the speed of light.
3. They can help in the study of the interior of the Sun.
4. They are not easily detectable because of their little interaction with matter.

How many of the above statements are correct?

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

Q 25. Consider the following statements with reference to the Nanozymes:

1. Unlike natural enzymes, they are less expensive and recyclable.
2. They require high temperature, high pressure and extreme pH conditions for its operation.

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

Q 26. Consider the following statements:

Statement-I: Satellites placed in geo-stationary orbit are launched from the east coast of India.

Statement-II: Satellites launched from near the equator towards the east provide an initial boost equal to the velocity of the Earth surface.

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

Q 27. Which one of the following is the correct sequential phase in the successional development of vegetation community in a habitat?

- (a) Migration, reaction, stabilisation and nudation
- (b) Migration, stabilisation, reaction and nudation
- (c) Nudation, migration, reaction and stabilisation
- (d) Reaction, migration, stabilisation and Nudation

Q 28. In the context of Ecology and Environment, Allen's Rule is associated with:

- (a) the relationship between limb size and other external organs of animals depending on the geographical region in which they live.
- (b) the development of similar traits in unrelated species due to similar geographical environment in which they live.
- (c) the genetic drift observed in isolated populations which causes some traits to become overwhelmingly frequent or completely disappear from the population.
- (d) the replacement of species in a region over time due to ecological succession.

Q 29. Consider the following scenario: 'A population of beetles consists of individuals with two different colors—green and brown. The green

beetles are more visible to predators, while the brown beetles blend in with their environment. Over several generations, the population of brown beetles increases while the green beetles decrease in number.'

The above scenario best illustrates which of the following biological principles?

- (a) Variation
- (b) Mutation
- (c) Speciation
- (d) Natural Selection

Q 30. In the context of modern Indian History, consider the following statements:

1. Moamarias Revolt was a peasant-led movement against the British taxation policy in Assam.
2. Moamarias followed the teachings of Aniruddhadeva.

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

Q 31. Consider the following statements:

1. The Nawab of Awadh was given the territories of Allahabad and Kara by the East India Company.
2. Shah Alam II issued a farman granting Diwani rights of Bengal, Bihar, and Orissa to the East India Company.
3. The Nawab of Awadh agreed to pay war indemnity and acknowledged Balwant Singh's possession of Banaras.

Which of the above statements are correct with respect to the outcomes of the Treaty of Allahabad (1765)?

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

Q 32. Notre Dame Cathedral is a medieval Catholic cathedral located on an island in the Seine River. The cathedral is dedicated to the Virgin Mary and is a UNESCO World Heritage Site. In which of the following country, the Notre Dame Cathedral is located?

- (a) France
- (b) Italy
- (c) Germany
- (d) Russia

Q 33. In the context of Modern Indian History during the first half of 1860s, consider the following statements:

Statement-I: During this time, there was a surge in cotton production in India.

Statement-II: There was a disruption of cotton production in the United States due to the onset of the American Civil War.

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 and 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

Q 34. With reference to 'Mid-Oceanic Ridges', consider the following statements:

1. It is a continuous range of underwater volcanoes in the deep ocean.
2. It occurs along the transform plate boundaries in the ocean.
3. All mid-oceanic ridges have a rift valley along their center.

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

Q 35. Consider the following statements:

1. Block mountains are formed by the bending of rock layers, while fold mountains are formed by the process of faulting.
2. Block mountains are characterized by long and linear shapes while fold mountains are characterized by sharp, rugged terrain with steep cliffs.
3. The Himalayas are an example of fold mountains, whereas the Black Forest is an example of block mountains.

Which of the statements given above is/are correct?

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

Q 36. The Deccan Traps in India are an example of:

- (a) Flood basalt
- (b) Dome volcano
- (c) Ash-flow tuff
- (d) Caldera

Q 37. Consider the following:

1. Nittur inscriptions
2. Gujara inscriptions
3. Girnar inscriptions
4. Udegolam inscriptions

How many of the above explicitly mention the name 'Ashoka'?

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

Q 38. Consider the following statements with reference to the Mauryan empire:

1. It had a rigid four fold varna system.
2. Widow remarriage and divorce was allowed.
3. Spinning and weaving were among the prime industries.

Which of the statements given above is/are correct?

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

Q 39. In the context of ancient Indian literature, the texts 'Sthananga Sutra and Acharanga Sutra' belong to:

- (a) Jain Angas
- (b) Buddhist Pitakas
- (c) Tantric Scriptures
- (d) Shaiva Agamas

Q 40. With reference to the Sufi orders known as silsilahs, consider the following statements:

1. Both Baba Fariduddin Ganj-i-Shakar and Nizamuddin Auliya belonged to the Chisti Order.
2. The Suhrawardis, unlike the Chishtis, accepted maintenance grants from the Kings.

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

Q 41. Consider the following statements:

1. A 'living will' authorizes a person in India to make medical decisions on behalf of another who is in an unconscious state.
2. In the Common Cause vs. Union of India and others (2018) case, the Supreme Court legalized passive euthanasia in India.

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

Q 42. With reference to recombinant proteins, consider the following statements:

1. They are proteins encoded by recombinant DNA.
2. They are produced by using genetically modified bacteria and yeast.
3. They are used to produce protein-based polymers for drug delivery.

How many of the above statements are correct?

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

Q 43. What is the application of PraVaHa, a computational fluid dynamics software developed by the ISRO?

- (a) Provide accurate trajectory for space flights
- (b) Reduction in space debris
- (c) Analyse the aerodynamics and thermodynamics of space vehicles
- (d) Measuring humidity in the atmosphere

Q 44. Consider the following statements regarding the 'doctrine of merger':

1. It states that when an appellate court passes an order, the order passed by the lower court is merged with that order.
2. It helps to bring uniformity in the application of different decrees while governing the same subject.

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

Q 45. Consider the following statements with reference to the elasticity of demand in an economy:

1. It refers to the situation where demand remains relatively constant, even when the economy shows signs of change.

2. Prescription drugs are examples of elastic goods.

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

Q 46. Consider the following statements with reference to the National Income Accounting (NIA):

1. Net Domestic Product (NDP) is the total value of finished products and services produced by a nation's residents both domestically and abroad.

2. Disposable Personal Income refers to actual income available to individuals for consumption after payment of taxes.

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

Q 47. Consider the following statements:

1. A higher Marginal Propensity to Consume (MPC) decreases the multiplier effect in an economy.

2. A higher investment multiplier has a proportionate positive impact on aggregate income in the economy.

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

Q 48. Which of the following were 'reserved subjects' under the Government of India Act, 1919?

- 1. Health
- 2. Law and order
- 3. Local government
- 4. Land revenue
- 5. Irrigation

Select the correct answer using the code given below:

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

Q 49. Consider the following:

- 1. Adoption of the National Flag
- 2. Ratification of India's membership of the Commonwealth
- 3. Election of Dr. Rajendra Prasad as the first President of India
- 4. Adoption of the National Anthem

How many of the above functions were performed by the Constituent Assembly of India after independence?

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

Q 50. Consider the following statements regarding the artworks found in the Constitution of India:

- 1. The Bull Seal from the Indus Valley region is the first pictorial representation in the Constitution, appearing in 'Part I: The Union and its Territory'.
- 2. Scenes of Ramayana and Mahabharata have been used in Part III and Part IV of the Constitution respectively.
- 3. Rani Lakshmbai of Jhansi is the only historical female personality that has been illustrated in the Constitution.

Which of the statements given above is/are correct?

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

Q 51. Consider the following statements with reference to the orders of Sufism:

1. While Suhrawardi silsilah was established by Sheikh Bahauddin Zakariya, the Chisti order was established by Khwaja Moinuddin Chishti in India.
2. While Suhrawardi silsilah believed in monotheism, the Chisti order advocated 'pantheistic monism'.

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

Q 52. With reference to the phenomenon of auroras, consider the following statements:

1. They are only visible at night and predominantly seen in high-latitude regions.
2. They emit red light due to the collision of ions with oxygen atoms high in the atmosphere.
3. Auroras in the Arctic Circle are known as the aurora borealis, while those in the Antarctic Circle are called the aurora australis.

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

Q 53. With reference to Radio Telescopes and Optical Telescopes, consider the following statements:

1. Radio telescopes are primarily useful at night whereas optical telescopes can detect celestial objects during the daytime.
2. Optical telescopes provide higher-resolution images than radio telescopes of the same aperture

size due to the shorter wavelength of visible light.

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

Q 54. Consider the following statements:

1. An alpha particle is a radiation particle with two protons, two neutrons and zero electrons.
2. A beta particle is an electron that is not attached to an atom.
3. Unlike alpha and beta particles, gamma rays do not have mass or charge.

Which of the statements given above is/are correct?

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

Q 55. Consider the following statements:

Statement-I: No two species may occupy the same ecological niche in the same geographical location.

Statement-II: Competition among two species in the same ecological niche may lead to the extinction of one species.

Statement-III: Many different species like elephant and giraffe can survive on the African grassland or Savannah.

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 Statement-II and Statement-III is correct and that explains Statement-I
- (d) Neither Statement-II nor Statement-III is correct

Q 56. In context to cyber security, a person would be accused of 'Global Positioning System (GPS) Spoofing' if s/he conducts which of the following actions?

- (a) Sharing of the location of an individual to others without his/her consent.
- (b) Misdirecting the GPS receiving device about his/her actual position.
- (c) Tracking the live GPS location of an individual without his/her consent.
- (d) Using a frequency transmitting device to block GPS services over a large area.

Q 57. Which of the following best defines an "Ecocline"?

- (a) It is the smallest ecologically distinct and relatively homogeneous land unit within a landscape.
- (b) A zone of gradual change in environmental conditions from one ecosystem to another with no sharp boundary in terms of species composition.
- (c) It is the transitional area between two different ecological communities or ecosystems.
- (d) The process of change in the species structure of an ecological community over time.

Q 58. Consider the following statements:

- 1. He was appointed as Diwan of Bengal under the Mughal emperor Aurangzeb.
- 2. After 1717, he became the independent Nawab of Bengal, although nominal allegiance to the Mughal emperor continued.
- 3. He is known for the introduction of the Mal Jasmani system in revenue administration.

Which of the following personality is described in the above statements?

- (a) Murshid Quli Khan
- (b) Saadat Khan
- (c) Kilich Khan
- (d) Ali Mohammad Khan

Q 59. With reference to the 'Policy of Ring- Fence' of the British government in India, consider the

following statements:

- 1. It was developed by Lord Wellesley to counter the French threat in India.
- 2. The States brought under the policy were assured of British military assistance against external aggression but at their own expense.

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

Q 60. Consider the following pairs:

Earthquake Scale	Measures:
1. Richter Scale	Magnitude of an earthquake
2. Moment Magnitude Scale	Total energy released by an earthquake
3. Mercalli Scale	Perceived intensity of an earthquake at specific locations.

How many of the pairs given above are correctly matched?

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

Q 61. Which one of the following constitutes the largest source of freshwater on the Earth's surface?

- (a) Ice caps and glaciers
- (b) Groundwater
- (c) Lakes
- (d) Atmosphere

Q 62. Consider the following statements:

- 1. The temperature of ocean surface water decreases from the equator toward the poles.
- 2. The enclosed seas have a higher temperature than the open seas in the higher latitudes. 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

Q 63. With reference to oceanic currents, consider the following statements:

1. The Benguela Current is a cold ocean current driven by the prevailing South Easterly trade winds of the South Atlantic Ocean.
2. The Humboldt Current is a warm ocean current that flows north from Antarctica along the east coast of South America.
3. The Gulf Stream is a warm ocean current that brings warm water from the Gulf of Mexico into the Atlantic Ocean.

Which of the statements given above is/are correct?

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

Q 64. The 'Phenome India-CSIR Health Cohort Knowledgebase' (PI-CHeCK) project aims to:

- (a) identify genetic mutations in the Indian population
- (b) develop a prediction model for non-communicable disease
- (c) facilitate collection of comprehensive healthcare data across India
- (d) promote traditional Indian medicine consumption

Q 65. Which one of the following is India's first private biosphere?

- (a) Theppakadu Elephant Camp
- (b) Great Nicobar Biosphere Reserve
- (c) Rajaji Raghathi Biosphere
- (d) Shoolpaneswar Wildlife Sanctuary

Q 66. With reference to the National Commission for Indian System of Medicine (NCISM), consider the following statements:

1. It was established as a statutory body replacing the Central Council for Indian Medicine.
2. It aims to improve access to quality and affordable medical education.
3. It has set up autonomous boards for Ayurveda and Unani, Siddha and Sowa-Rigpa.

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

Q 67. Consider the following:

1. Astrophysics
2. Neuroscience
3. Nanoscience
4. Natural science
5. Theoretical Physics

The Kavli Prize is awarded biennially in how many of the above categories?

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

Q 68. Consider the following pairs:

Places often seen in the news	Region
1. Rafah	Palestine
2. Abu Musa Island	Greece
3. Crete Island	Israel
4. Gardi Sugdub	Panama

How many of the pairs given above are correctly matched?

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

Q 69. Consider the following:

1. High demand for goods and services
2. Declining Gross Domestic Product (GDP) growth rate
3. Companies operating below their maximum efficiency levels
4. Reduction in the transfer payments by the Government

How many of the above indicate the situation of negative output gap in an economy?

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

Q 70. Consider the following pairs:

	Type of Curve	Describes the Relation Between
1.	Phillips Curve	Exchange rate and total trade
2.	Kuznets Curve	Income inequality and economic growth
3.	Laffer Curve	Inflation and unemployment

How many of the pairs given above are correctly matched?

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

Q 71. The Government of India Act of 1919 provided for which of the following?

1. Direct elections for the first time
2. Half the members of the Viceroy's Executive Council were to be Indians
3. Appointment of a Statutory Commission
4. Separation of Provincial budgets from the Central budget

Select the correct answer using the code given:

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

Q 72. Which one of the following Acts established a system of dual Government in British India?

- (a) Regulating Act of 1773
- (b) Pitt's India Act of 1784
- (c) Charter Act of 1813
- (d) Charter Act of 1853

Q 73. Which of the following celestial phenomena is directly associated with the Chandrasekhar limit?

- (a) Formation of planetary nebulae
- (b) Star transforms into white dwarf / neutron star
- (c) Expansion of a red giant
- (d) Accretion in a binary star system

Q 74. With reference to Fast Breeder Reactors, consider the following statements:

1. They generate more atomic fuel than they consume.
2. They can use both Uranium-235 and Uranium-238 as fuel.
3. Unlike conventional reactors, they operate without moderators.

Which of the statements given above is/are correct?

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

Q 75. Consider the following:

1. Boron (B)
2. Silicon (Si)
3. Gallium Arsenide (GaAs)
4. Gold (Au)
5. Plutonium (Pu)

How many of the above are commonly used materials in any of the processes related to semiconductor chips?

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

Q 76. With reference to 'Molybdenum', consider the following statements:

1. It is a metallic material that has excellent resistance to corrosion and heat.
2. Molybdenum, in its two dimensional form, cannot conduct electricity.
3. It is widely used as a catalyst in the chemical and petroleum industries.

Which of the statements given above is/are correct?

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

Q 77. Which of the following best defines Gross Primary Productivity (GPP) in an ecosystem?

- (a) It is the rate of energy transfer from one trophic level to another.
- (b) It is rate of production of organic matter by heterotrophic organisms over a given period of time.
- (c) It is the rate of production of organic matter during photosynthesis minus respiration losses.
- (d) It is the rate of production of organic matter during photosynthesis.

Q 78. Which one of the following statements correctly describes the "Keeling Curve"?

- (a) A graphical representation showing the seasonal variation of global sea levels over time.
- (b) A curve that depicts the rise and fall of Arctic ice extent during different seasons.
- (c) A graph that shows the ongoing change in the concentration of carbon dioxide in the Earth's atmosphere.
- (d) A representation of the Earth's magnetic field strength changes over centuries.

Q 79. With reference to the consequences of the Revolt of 1857, consider the following statements:

1. The administration of India was transferred from the East India Company to the British Crown.
2. British brought a new policy of perpetual support for "native princes".
3. Indian soldiers were completely banned from holding any commissioned ranks in the British Indian Army.

Which of the statements given above is/are correct?

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

Q 80. With reference to the Major Atmospheric Cherenkov Experiment (MACE) Observatory, consider the following statements:

1. It is located at Hanle in Ladakh.
2. It is primarily used for studying cosmic gamma rays.
3. It has been indigenously built by the Bhabha Atomic Research Centre (BARC).

Which of the statements given above is/are correct?

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

Q 81. Consider the following pairs:

Ocean Relief Feature	Description:
1. Seamount	Found near the boundaries of Earth's tectonic plates
2. Submarine Canyon	Flat-topped seamount
3. Guyot	Steep-sided valleys that cut into continental rises
4. Atoll	Low islands of coral reefs in the tropical oceans.

How many of the pairs given above are correctly matched?

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

Q 82. Consider the following statements:

1. The Earth's molten core can only be passed through by compressional waves.
2. In a seismograph, surface waves are recorded after the P and S waves.
3. Like the S-wave, Love waves are transverse to the direction of propagation.

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

Q 83. With reference to bird flu, consider the following statements:

1. It is caused by a bacterium.
2. It affects both domestic and wild birds.
3. Human-to-human transmission of the disease is very rare.

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

Q 84. Consider the following statements:

Statement-I: Certain species of fungi can help mitigate ocean pollution.

Statement-II: Certain species of fungus can break down the plastic polyethylene.

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

Q 85. The “free rider problem” is commonly associated with public goods because:

- (a) public goods are rivalrous and individuals compete to use them
- (b) public goods are excludable, and only those who pay can enjoy their benefits
- (c) public goods are non-excludable, allowing individuals to benefit without paying for them
- (d) public goods are provided efficiently by private markets, leading to equitable distribution

Q 86. Consider the following statements with reference to the tangible assets:

1. They are used in the production or supply of goods and services.
2. Patent and software licenses are examples of tangible assets.

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

Q 87. Which of the following are included under the First Schedule of the Constitution of India?

1. Names of the States
2. Names of the Union Territories (UTs)
3. Allocation of seats to the States and the UTs in the Rajya Sabha

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

Q 88. Consider the following statements:

Statement-I: Article 1 of the Constitution describes India as a 'Union of States' rather than a 'Federation of States'.

Statement-II: The Indian Federation is not the result of an agreement among the States.

Statement-III: The States have no right to secede from the Indian federation.

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

Q 89. Consider the following:

1. Principle of secrecy of procedure followed by Ministers
2. The President is the head of the State and head of the Government
3. The doctrine of strict Separation of Powers
4. President's power to dissolve the Lok Sabha

How many of the above are the features of the Parliamentary form of Government in India?

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

Q 90. The Millennium Ecosystem Assessment describes the following major categories of ecosystem services—provisioning, supporting, regulating and cultural services.

In this context consider the following services:

1. Climate regulation
2. Food production
3. Water purification
4. Raw materials like timber
5. Recreational use

How many of the above are provisioning services of the ecosystem?

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

Q 91. With reference to the ecology, which among the following statements best describes the term 'Standing State'?

- (a) It is the mass of living material at a particular time in an area.
- (b) It is a complex in which habitat, plants and animals are considered as one unit.
- (c) It is the total weight of natural vegetation present in a given area at a particular time.
- (d) It is the amount of nutrients present in the soil at any given time.

Q 92. Consider the following statements:

Statement-I: The acceleration due to gravity (g) is greater near the poles than at the equator.

Statement II: The distance from the earth's center to the equator is greater than that at the poles.

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

Q 93. Consider the following:

1. Stabilization of the Earth's axial tilt
2. Influencing ocean tides
3. Supporting nocturnal animals in their movements.

In how many of the above ways does the Moon affect life on Earth?

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

Q 94. In the context of geomorphology, what does the term 'tillite' refer to?

- (a) A metamorphic rock formed by the accumulation and alteration of clay minerals
- (b) A rock formed from the recrystallization of limestone under heat and pressure
- (c) An igneous rock produced by the cooling and solidification of lava
- (d) A sedimentary rock formed by the compaction and lithification of glacial till

Q 95. Milgromian Dynamics (MOND) was recently seen in the news in the context of:

- (a) discovery of new planets
- (b) launch of a new space mission to Saturn
- (c) development of particle physics theories
- (d) explanation of laws of gravity

Q 96. Consider the following statements regarding the "Air of the Anthropocene" project:

1. It is an initiative that combines art and science to visualise air pollution using light painting.
2. It was launched by the United Nations

Environment Programme.

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

Q 97. Consider the following statements with reference to the Parliamentary system in India and Britain:

1. Unlike India, the Ministers are obliged to countersign the official Acts of the Head of the State in Britain.
2. Both the systems of Government are based on the doctrine of the sovereignty of the Parliament.
3. In Britain, the Prime Minister is a member of the Lower House by convention, whereas in India, the Prime Minister can be a member of either House of Parliament.

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

Q 98. Consider the following statements:

1. Hyderabad was incorporated into India through means of a referendum.
2. Junagarh became a part of India by means of police action.
3. Assam was the first State of India to hold an election based on a universal adult franchise.

Which of the statements given above is/are correct?

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

Q 99. Consider the following:

1. Kerala
2. Himachal Pradesh
3. Andhra Pradesh
4. Madhya Pradesh
5. Maharashtra

How many of the above were created by the States Reorganisation Act of 1956?

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

Q 100. Consider the following statements:

1. A Bill altering the boundaries of any State can only be introduced in the Parliament with the prior recommendation of the President.
2. Laws made for the admission of new States are considered amendments to the Constitution of India under Article 368.
3. Ceding Indian territory to a foreign country mandates a Constitutional Amendment.

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

