



VIDHVATH ACADEMY FOR COMPETITIVE EXAMS

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FULL LENGTH TEST: VPT054

GENERAL STUDIES TEST BOOKLET

Time Allowed: 120 mins

Maximum Marks: 200

INSTRUCTIONS

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET DOES NOT HAVE ANY UNPRINTED OR TURN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
 2. ENCODE CLEARLY THE TEST BOOKLET SERIES 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. Do NOT write anything else on the Test Booklet.
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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 with you consider the best. In any case, choose ONLY ONE response for each item.
 5. You have to mark all your responses ONLY on the separate Answer Sheet provided. See direction in the answers sheet.
 6. All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the answer sheet. For every incorrect response $1/3^{\text{rd}}$ (0.66) of the allotted marks will be deducted.
 7. Before you proceed to mark in the Answer sheet the response to various items in the Test booklet, you have to fill in some particulars in the answer sheets as per instruction sent to you with your Admission Certificate.
 8. After you have completed filling in all responses on the answer sheet and the examination has concluded, you should hand over to Invigilator only the answer sheet. You are permitted to take away with you the Test Booklet.
 9. Sheet for rough work are appended in the Test Booklet at the end.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO

1. Consider the following:

1. Proba-3
2. LuPEX
3. Aditya L1

How many of the above space missions are related to the Sun?

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

2. Consider the following statements regarding Semi-Dirac Fermion:

1. They exhibit mass in one direction while remaining massless in the perpendicular direction.
2. The cyclotron energy on graphene is due to the presence of semi-Dirac Fermion.

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

3. In seawater desalination technology, to reduce the concentration of Brine (by-product of the membrane filtration of salty waters) to the level of seawater, an anion exchange membrane is used. Which of the following principles is applied in reducing the concentration of Brine?

- (a) Diffusion
- (b) Reverse Osmosis
- (c) Imbibition
- (d) Transpiration

4. The Gulf of Mexico is connected to the Atlantic Ocean by which of the following straits?

- (a) Straits of Florida
- (b) Hudson Strait
- (c) Davis Strait
- (d) Bering Strait

5. Consider the following:

Technique - Application

1. Fallout Radionuclide Technique - Measuring Soil Erosion Pattern
2. Radioimmunoassay - Tracking Hormone Levels in animals
3. Sterile Insect Technique - Biological vector control methods
4. Cosmic-Ray Neutron Sensor - Detecting Radiations from Outer Galaxies

How many of the pairs mentioned above are correctly matched?

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

6. Consider the following statements:

1. BioE3 Policy aims to develop Biomanufacturing and Biofoundry in India.
2. Biomanufacturing uses biological systems like cells to produce commercially viable products.
3. BioFoundries can enable automation of labour-intensive processes.
4. BioE3 Policy aligns with the Lifestyle for Environment initiative.

How many of the above statements is/are correct?

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

7. Which one of the following denotes 'never event'?

- (a) An unexpected weather phenomenon
- (b) Use of destructive technologies that challenge world peace
- (c) Unexpected failure of satellites in space missions
- (d) A preventable failure in healthcare setup

8. Consider the following pairs:

Wildlife sanctuary (WLS) - State

1. Chincholi WLS - Maharashtra
2. Sita Mata WLS - Madhya Pradesh
3. Coringa WLS - Andhra Pradesh

How many of the above pairs is/are correct?

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

9. With reference to Lagrange points, consider the following statements:

- 1. These are locations in space where the gravitational pull of two large masses and the centripetal force of a smaller object are in equilibrium.
- 2. There are only two Lagrange points in space.

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

10. With reference to trachoma, consider the following statements:

- 1. It is a fungal infection.
- 2. It affects the respiratory system.
- 3. It is classified as a neglected tropical disease by the World Health Organization.

How many of the above statements is/are correct?

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

11. Consider the following statements:

- 1. Statement-I: Graphene is used to lower the fuel crossover in fuel cells.
- 2. Statement II: Protons can pass through graphene membranes.
- 3. Statement III: Fuel crossover increases durability of fuel cells.

Which 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 Statements II and III is correct, and that explains Statement I

(d) Only one of Statements II and III is correct, and that does not explain Statement I

12. With reference to species *Hemigobius hoeverii* and *Mugilogobius tigrinus*, consider the following statements:

- 1. Both species belong to a group of fish commonly known as "gobies".
- 2. *M. Tigrinus* is found only on the western coastline of India.
- 3. They are mostly found in estuarine areas.

Which of the statements given above is/are correct?

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

13. Consider the following statements:

- 1. Casein and whey are proteins found in dairy products.
- 2. Digestion of whey protein being quicker helps with muscle repair.
- 3. Peptides found in casein can reduce the formation of blood clots.

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

14. BPALM regimen is a four-drug combination prescribed for:

- (a) Sickle cell anaemia
- (b) Pneumonia
- (c) Malaria
- (d) Tuberculosis

15. Consider the following information:
Type of hydrogen Description

1. Green hydrogen - Produced by water electrolysis using renewable energy sources
2. Purple hydrogen - Produced by the steam methane reforming method using fossil fuel
3. White hydrogen - Naturally occurring hydrogen
4. Blue hydrogen - Hydrogen stored in coastal marine ecosystems

How many of the above pairs are correctly matched?

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

16. Which of the following are the applications of Surface-Enhanced Raman Spectroscopy (SERS)?

1. Bio sensors
2. Detection of Chemical warfare agents
3. Identification of natural dyes in art materials
4. Nanotags to encode jewelry

Select the correct answer using the codes given below:

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

17. Which one of the following is the 'Barnase-Barstar system' related to?

- (a) Genetically modified crops
- (b) Supersonic missiles
- (c) Weather prediction
- (d) Vaccine development

18. Consider the following statements:

1. Halo orbits are three-dimensional orbits around a Lagrange point.
2. Satellites placed in the halo orbit can view the Sun without any hindrance.

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

19. Consider the following statements:

1. Bharat Small Modular Reactors are Pressurized Heavy Water Reactors while Bharat Small Reactors are factory-made, easily assembled reactors.
2. Development of Bharat Small Reactors won't involve the private sector as per the Atomic Energy Act of 1962.

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

20. With reference to the Genome India Project, consider the following statements:

1. Baseline mapping of 1,00,000 genomes has been sequenced in the first phase.
2. The second phase seeks to include genetic information of people with specific diseases.
3. It allows commercial pharmaceutical companies unrestricted access to genomic data for life-saving drug development.

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

21. With reference to missionary activities in India, consider the following statements :-

1. Statement I: An Act of Parliament in 1783 banned the entry of missionaries into India without a license.
2. Statement II: The attempts at proselytization by missionaries were counterproductive to the East India Company's efforts to consolidate its position as a political power.

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

- (a) Both Statement-I and Statement-II are correct and Statement-II is the correct explanation for Statement-I.
- (b) Both Statement-I and Statement-II are correct and Statement-II is not the correct explanation for Statement-I.
- (c) Statement-I is correct but Statement-II is incorrect.
- (d) Statement-I is incorrect but Statement-II is correct

22. With reference to the Quit India Movement, consider the following statements :

- 1. Students, women, merchants, and rural populations participated in the movement in a large number.
- 2. The Individual Satyagraha was envisaged by Congress to prepare the masses before the commencement of mass struggle.
- 3. Muslim League supported the Crips Mission as it assured any constitution will not be adopted without the support of minorities.
- 4. Gandhiji's call for "Do or Die," intended as a non-violent movement, eventually escalated into a violent struggle.

How many of the above given statements are correct?

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

23. Consider the following information:

Commission - Purpose

- 1. Muddiman Committee - Examine the working of the Government of India Act, 1919.
- 2. Whitley Commission - Examine the conditions of labour.
- 3. Fraser Commission - Suggest reforms in the police organisation.

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

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

24. With reference to SAMVAD initiative, consider the following statements:

- 1. It is a national initiative which supports mental health interventions for children in vulnerable circumstances.
- 2. It works with panchayati raj institutions to integrate child protection and mental health in aspirational districts.
- 3. The initiative is under the Ministry of Women and Child Development.

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

25. With reference to Saint Kabir, consider the following statements:

- 1. Kabir believed in idol worship.
- 2. He was against the caste system.
- 3. His ideas and verses are a part of the Guru Granth Sahib.
- 4. His teachings bridged Hinduism and Islam.

How many of the above statements is/are correct?

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

26. 'Samarangana Sutradhara' is a book on

- (a) Puppetry
- (b) Temple festivals
- (c) War conquests
- (d) Architecture

27. Consider the following information:

Painting - State - Description

- 1. Warli Maharashtra Some paintings depict a mother goddess

2. Gond Chhattisgarh Votive paintings portraying Krishna
3. Sohrai Jharkhand Depicts urban lifestyle

Which of the above pairs is/are correctly matched?

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

28. Consider the following statements:

1. Solar Dehydration technology is a sustainable method to dehydrate fruits and herbs using solar energy by the farmers.
2. By using the technology, farmers preserve the natural colour and nutrition of the fruits.
3. The technology extends the shelf life of crops and enhances the marketability of the farmers.

How many of the statements given above are correct?

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

29. With reference to the socio-religious reform movements, consider the following statements:

1. Raja Ram Mohan Roy pioneered the reform movement through social work which led to the ban on Sati.
2. Most reform movements spread to major urban centers across the country but had limited penetration in rural areas.
3. Reformists rejected the infallibility of religious scriptures and advocated change through humanism, rationalism, and logical reasoning.

How many of the above given statements are not correct?

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

30. With reference to Mahatma Gandhi's struggle in South Africa, consider the following statements:

1. The Franchise Law Amendment Bill that sought to disfranchise Indians marked the beginning of his struggle in South Africa.
2. The weekly publication of the 'New India' was used to disseminate the discrimination imposed on Indians and popularize the struggle to garner broader support.
3. He formed the Passive Resistance Association to undertake the Satyagraha against the bill that required Indians to carry a certificate of registration with fingerprints.

How many of the above given statements are correct?

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

31. Who among the following wrote the novel 'Char Adhyay', which condemns the unfeminine behaviour during the Civil Disobedience Movement?"

- (a) Rabindranath Tagore
- (b) Vrindavan Lal Verma
- (c) Premchand
- (d) Jinendra Kumar

32. The terms Aspirine, Acetaminophen and suzetrigne are seen recently in the news, is related to,

- (a) Preservatives
- (b) Non-Opioids
- (c) Antiseptics
- (d) Antibiotics

33. Consider the following information:

Dance form - State Description

1. Sattriya Assam Propagated by Shankaradeva
2. Odissi Odisha Famous for the chowk stance
3. Mohiniyattam Kerala Belongs to the tandava style of dancing

Which of the above pairs are correctly matched?

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

34. Consider the following statements:

- 1. Stupas in India only contain relics of Buddha.
- 2. Some stupas were built at sites where Buddha delivered sermons.
- 3. Sanchi stupa exhibits four great events from the life of Buddha.

How many of the above statements is/are correct?

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

35. Which one of the following ancient towns is famous for hosting the world's oldest known artificial dock?

- (a) Dholavira
- (b) Padta Bet
- (c) Ropar
- (d) Lothal

36. With reference to the nuclear energy mission for viksit bharat recently announced in the Government of India's budget, which of the following statements is/are correct?

- 1. Setting up of indigenous operational Small Modular Reactors
- 2. Promoting complete private sector participation in the nuclear sector
- 3. Deploying advanced nuclear technology

Select the correct answer using the codes given below:

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

37. Consider the following statements:

- 1. Charaideo Moidams is the only cultural property from Assam inscribed on the UNESCO World Heritage list.
- 2. Charaideo was the capital city of the Ahom Dynasty.
- 3. Changrung Phukan is a book that provides information on the construction of Moidams.

How many of the above statements is/are correct?

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

38. With reference to the 'wheels of life and time' from Odisha's Konark Sun Temple, consider the following statements:

- 1. It is believed that Konark wheels symbolize the Dharmachakra of Buddhism.
- 2. Konark wheels have 24 spokes denoting hours in a day.

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

39. Consider the following:

- 1. Hieun-Tsang
- 2. Hsuan Chwang
- 3. I-Qing

How many of the above travellers have visited Nalanda University?

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

40. Consider the following statements:

- 1. Statement 1: Marine heat waves necessarily cause harmful algae blooms.
- 2. Statement 2: Marine heat waves are extreme weather events when the sea surface temperature is higher in a

particular region above the average temperature.

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 is the correct explanation of Statement I
- (b) Both Statement I and Statement II are correct, but Statement II is not the correct explanation of Statement I
- (c) Statement I is correct, but Statement II is incorrect
- (d) Statement I is incorrect, but Statement II is correct

41. With reference to the Viability Gap Funding (VGF) Scheme, which of the following statements is/are correct?

- 1. The scheme provides financial aid to infrastructure projects with private sector sponsors chosen via competitive bidding.
- 2. The maximum VGF under the scheme is 50% of the total project cost.

Select the answer using the code given below:

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

42. With reference to the Bay of Bengal Initiative for Multisectoral Technical and Economic Cooperation (BIMSTEC), consider the following statements:

- 1. BIMSTEC Summit has the authority to admit new members into the grouping.
- 2. BIMSTEC is considered a legal personality.

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

43. With reference to the GDP deflator and Consumer Price Index (CPI), consider the following statements:

- 1. The GDP deflator includes prices of all goods and services produced in a country, whereas CPI includes prices of goods consumed by the representative consumer.
- 2. The GDP deflator accounts for imported goods, while CPI does not include prices of imported goods.
- 3. The weights used in the CPI are constant, but they vary in the GDP deflator based on the production level of each good.

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

44. Consider the following statements:

- 1. In the third five-year plan, agriculture was given top priority to support exports and industry.
- 2. The Ninth five-year plan aimed to depend predominantly on the private sector.
- 3. In the Eleventh five-year plan, the poverty count was calculated based on the Tendulkar Formula.

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

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

45. The Gross Reproduction Rate in an economy is defined as:

- (a) Average number of children that would be born to a married woman by the end of her child-bearing age.
- (b) Average number of children that would be born to a woman by the end of her child-bearing age.

- (c) Average number of daughters that would be born to a woman by the end of her child-bearing age.
- (d) Average number of years a newborn child is expected to live under current mortality conditions.

46. Which one of the following countries is related to the term 'Orangutan Diplomacy'?

- (a) Thailand
- (b) Malaysia
- (c) China
- (d) India

47. With reference to Participatory Notes (P-Notes), consider the following statements:

- 1. They are offshore derivative instruments with Indian shares as the underlying assets.
- 2. Hedge funds can anonymously carry out their operations using P-Notes.

Which of the above statements is/are correct?

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

48. Consider the following instruments:

- 1. Equity shares
- 2. Debentures
- 3. Trade bill reports
- 4. Preference shares
- 5. Bonds
- 6. T-bills

How many of the above are capital market instruments?

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

49. Consider the following statements:

- 1. Revenue deficit is the excess of revenue expenditure of the Government over its revenue receipts.

- 2. Fiscal deficit is the excess of the total expenditure of the Government over its non-debt receipts.
- 3. Primary deficit is the difference between the fiscal deficit of the current year and the interest payment on the earlier borrowings.

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

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

50. Consider the following statements:

- 1. Cancellation of flights
- 2. Rise in energy consumption
- 3. Disruption of water supply
- 4. Damage to horticultural crops

How many of the above are possible consequences of cold waves?

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

51. Consider the following statements regarding the MSME-TEAM Initiative:

- 1. It is a sub-scheme under the Raising and Accelerating MSME Productivity (RAMP) Programme.
- 2. It will provide financial assistance to micro and small enterprises by clustering the companies in the primary market.
- 3. It helps MSMEs access different markets by integrating them with e-NAM.

Which of the statements given above is/are correct?

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

52. Consider the following statements:

- 1. The maximum number of Unincorporated Sector Enterprises is

headed by female proprietors in the Manufacturing sector.

2. This sector shows a declining trend in capital investment.

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

53. Consider the following statements regarding:

1. Statement 1: Base Erosion and Profit Shifting are tax avoidance strategies multinational corporations employ to reduce their tax bases.
2. Statement 2: Multinational companies shift their profits to tax havens, erode the tax base, and pay no tax to the country that generates the revenue.

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 is the correct explanation of Statement I
- (b) Both Statement I and Statement II are correct, but Statement II is not the correct explanation of Statement I
- (c) Statement I is correct, but Statement II is incorrect
- (d) Statement I is incorrect, but Statement II is correct

54. The Keeling Curve is related to:

- (a) Carbon dioxide concentration in the atmosphere
- (b) Harmful gases emitted by coal power plants
- (c) Emission of ammonia in agriculture
- (d) Carbon sequestered by world oceans

55. Suppose there are only two normal goods in the economy, A and B, where A is a substitute good for B. If the price of A decreases, which would be the correct statement from below?

- (a) Demand for A decreases, and demand for B is indeterminate.

- (b) Demand for A increases, and demand for B is indeterminate.
- (c) Demand for A decreases, and demand for B increases.
- (d) Demand for A increases, and demand for B decreases.

56. Consider the following:

Island Associated - River - Characteristics

1. Sagar Island - River Hugli - Located at the confluence of the Ganges River and the Bay of Bengal
2. Willingdon Island - River Mandovi - Largest man-made Island in India
3. Majuli island - River Brahmaputra - Largest river island in the world

In which of the above rows is the given information correctly matched?

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

57. Consider the following statements:

1. Rivers Damodar and Cauvery are east flowing rivers.
2. River Damodar occupies eastern margins of the Chotanagpur Plateau and has rift valley due to down warping.
3. River Cauvery which rises in Brahmagiri hills forms islands in Karnataka and Tamil Nadu.

How many of the statements given above are correct?

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

58. Following are the characteristics of an area in India:

1. Humid tropical climates.
2. Areas of well distributed rainfall of 250cm.
3. Minimum mean temperature of 15°C
4. clay to sandy loamy soil

Which one of the following crops are you most likely to find in the area described above?

- (a) Jute
- (b) Rice
- (c) Cotton
- (d) Rubber

59. Consider the following statements:

- 1. Indonesia has the world's largest single patch of mangrove forests.
- 2. Mangrove forests in India are the first in the world to be bought under scientific management.

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

60. Consider the following:

Local Wind Location - Type of Wind

- 1. Chinook Eastern slopes of Rockies Cold
- 2. Sirocco Sahara Desert Hot
- 3. Bora Adriatic coast Hot
- 4. Mistral Rhone valley Cold

In which of the above rows is the given information correctly matched?

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

61. Which of the following are the methods of soil conservation in India?

- 1. Contour ploughing
- 2. Overgrazing
- 3. Shelter belt plantation
- 4. Ravines
- 5. Terracing

Select the correct answer using the codes given below:

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

62. Consider the following statements:

- 1. Kurds are the largest ethnic group inhabited in the Kurdistan region.
- 2. The region is part of Turkey, Iraq, Iran and smaller parts of Syria and Armenia.

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

63. The Battlefield Surveillance System SANJAY is jointly developed by,

- (a) Indian Army and Bharat Electronics Limited
- (b) Indian Army and Defence Research and Development Organisation
- (c) Indian Army and Council of Scientific & Industrial Research
- (d) Defence Research and Development Organisation and Council of Scientific & Industrial Research

64. Which of the following cities of India received Wetland City Accreditation (WCA)?

- 1. Indore
- 2. Bhopal
- 3. Udaipur
- 4. Chennai
- 5. Little Andaman

Select the correct answer using the codes given below:

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

65. With reference to characteristics of fronts, consider the following statements:

- 1. Cold front is associated with bad weather conditions.
- 2. Stationary front is formed when warm air is completely displaced from the ground surface.

3. Occluded front is formed when cold and warm air masses are parallel to each other.

Which of the statements given above is/are correct?

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

66. Consider the following information:

Type of ecosystem Climatic conditions

- 1. Boreal forest - Cold with long harsh winter
- 2. Tropical Rain forests - High temperature and humidity
- 3. Deserts - Vast saline flats, highly sandy dunes.

Which of the pairs given above is/are correct?

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

67. Consider the following statements:

- 1. Statement 1: Areas of steep relief are devoid of mountain soil.
- 2. Statement 2: Nutrients in soil are leached away in mountain areas mostly eroded by water on steeper slopes and erosion by wind on exposed areas.

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 is the correct explanation of Statement I
- (b) Both Statement I and Statement II are correct, but Statement II is not the correct explanation of Statement I
- (c) Statement I is correct, but Statement II is incorrect
- (d) Statement I is incorrect, but Statement II is correct

68. Consider the following statements:

- 1. An employee who has completed 10 years of service is only eligible for Unified Pension Scheme (UPS).
- 2. An employee who has served for more than 10 years but less than 25 years will get a pension of 50% of the average basic pay drawn by the employee during the 12 months prior to retirement.

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

69. Which one of the following seas of the world has become dry and turned into a desert?

- (a) Weddell Sea
- (b) Black Sea
- (c) Aral Sea
- (d) Kara Sea

70. Consider the following statements:

- 1. Statement-I: Despite the huge transfer of heat from the sun, the earth neither warms up nor cools down.
- 2. Statement-II: There exists a near-net zero energy balance between incoming shortwave radiation and outgoing terrestrial radiation.

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

71. Consider the following pairs:

Ocean Currents - Classification Location

1. Agulhas current - Warm ocean current
- The western boundary of the South Indian Ocean
2. Kuroshio current - Warm ocean current
- The eastern boundary of Pacific Ocean
3. Canary current - Cold ocean current
- The eastern boundary of the Atlantic ocean

Which of the pairs given above is correct?

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

72. Consider the following statements:

1. Only a convict who has served at least one year of the jail term can be released on parole.
2. The prisoner has to spend extra time in prison for the period spent by him outside the Jail.

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

73. With respect to the Iron and Steel industry in India, consider the following statements:

1. Iron and steel are heavy industries, as the raw materials used and the finished goods manufactured are heavy and bulky.
2. The major steel plants are mainly concentrated in western parts of India, with some pockets in the south.
3. India is the leading and largest producer of steel in the world.

Which of the statements given above is/are correct?

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

74. Consider the following pairs:

Regions of the Peninsular Plateau - Spread over - Significant minerals present

1. Northeastern plateau - Chota Nagpur and Odisha plateau - Iron ore and manganese
2. South-western plateau - Karnataka and Tamil Nadu plateau - Bauxite and rich deposits of coal
3. North-western region - Gulf of Khambat to Aravallis - Petroleum and natural gas

Which of the pairs given above is/are correctly matched?

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

75. With reference to Physiography of India, consider the following statements:

1. Most of the peninsular rivers originate in the Eastern Ghats.
2. The peninsular plateau has frequent uplift and submergence, accompanied by crustal faulting and fractures.
3. Western Ghats are comprised of low hills that are highly eroded by rivers.
4. The western coastal plains are narrow in the middle and broader towards the north and south.

How many of the statements given above are correct?

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

76. Consider the following:

1. President
2. Lok Sabha
3. Rajya Sabha
4. Legislative assemblies
5. Legislative councils

How many of the above are compulsorily involved in all the constitutional amendment processes?

- (a) Only two
- (b) Only three

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

77. Consider the following statements with respect to the members of the Central Vigilance Commission (CVC):

1. The members of the CVC are appointed by the President by warrant under his hand and seal.
2. The members of the CVC hold office for a term of six years or until they attain the age of seventy, whichever is earlier.
3. The president can also remove the Central Vigilance Commissioner on the grounds of proven misbehavior or incapacity.

How many of the statements given above are correct?

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

78. With reference to national emergency, consider the following statements:

1. The Center becomes entitled to give executive directions to a state on any matter.
2. The legislative power of a state legislature is suspended.
3. The power to modify the constitutional distribution of revenues between the center and the states is vested in Parliament.

How many statements given above are correct?

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

79. Consider the following corporations/authorities:

1. Reserve Bank of India
2. Food Corporation of India
3. State Bank of India
4. Life Insurance Corporation of India

How many of the above are totally and directly audited by the Comptroller and Auditor General of India (CAG)?

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

80. Consider the following pairs:

Constitutional Amendments - Related to

1. 100th Constitutional Amendment Act: National Judicial Appointment Commission
2. 101st Constitutional Amendment Act: Goods and Services Tax
3. 102nd Constitutional Amendment Act: Reservation of seats in Parliament

Which of the above pairs is/are correctly matched?

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

81. Consider the following information:

1. It is a small arboreal mammal.
2. It thrives best at 4,800m in mixed deciduous and coniferous forests.
3. It is listed as Endangered in the IUCN Red List of Threatened Species.
4. It is the state animal of Sikkim.

Which of the following animals is described above?

- (a) Hillock Gibbon
- (b) Lion-tailed Macaque
- (c) Red Panda
- (d) Giant Squirrel

82. With reference to services provided by biodiversity to humans, consider the following statements:

1. It provides medicinal resources and pharmaceutical drugs.
2. It has recreational value and tourism potential.
3. It contributes to climate stability.
4. It provides diversity in genes, species and ecosystems.
5. It helps in research and education.

Which of the above are Ecosystem services provided by biodiversity?

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

83. The place "A" is the transitional zone between terrestrial and aquatic ecosystems. It has hydric soils and periodic flooding from adjacent deep water habitats. The dominant plants are hydrophytes which are adapted to shallow waterlogged soils. This place includes lake littorals, floodplains and other marshy or swamp areas.

The place "A" is which of the following types of ecosystem?

- (a) Estuary ecosystem
- (b) Wetland ecosystem
- (c) Mangroves
- (d) Ocean ecosystem

84. Consider the following:

- 1. Angola
- 2. Namibia
- 3. Zimbabwe
- 4. Malawi
- 5. Mozambique

How many of the above countries are part of the Kavango Zambezi Transfrontier Conservation Area?

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

85. With respect to Total forest cover in India, consider the following statements:

- 1. The total forest cover of the country is 21.71% of the geographical area of the country.
- 2. The country's total forest cover is recorded more in Arunachal Pradesh as compared to other states.

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

86. Consider the following statements with reference to Olive Ridley Turtles (*Lepidochelys olivacea*):

- 1. They inhabit the warm waters of the Pacific, Atlantic and Indian oceans.
- 2. Due to their numbers declining over the past few years, the species is recognized as Endangered by the IUCN Red list.
- 3. They are herbivorous and feed on phytoplankton's and sea weeds.
- 4. The coast of Odisha in India is the largest mass nesting site for this species in the world.

Which of the statements given above are correct?

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

87. Which of the following organisms has a different breathing mechanism than that of humans?

- (a) Cow
- (b) Cat
- (c) Earthworm
- (d) Dog

88. With reference to Diatoms, consider the following statements:

- 1. They are microscopic algae responsible for around one-fourth of the global oxygen production.
- 2. They are endemic to Asia and North America continents.
- 3. They are absent in brackish water ecosystems.
- 4. They act as indicator species of their aquatic habitats.

Which of the statements given above is/are not correct?

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

89. The UNFF "Country led initiative", sometimes seen in news, related to,
- (a) Forest fires and Sustainable forest management
 - (b) Assessing the overall carbon footprint by the use of fossil fuels
 - (c) Protection of biodiversity
 - (d) Developmental research in scientific forestry

90. In ideal environmental conditions, which of the following species has high biotic potential?

1. Bacteria
2. Mammals
3. Insects

Select the correct answer using the codes given below:

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

91. Which of the following group of organisms are found on the air-water interface in an Aquatic Ecosystem?

- (a) Neuston
- (b) Periphyton
- (c) Plankton
- (d) Benthos

92. Which of the following brings out the "Container Port Performance Index"?

- (a) World Economic Forum
- (b) World Bank
- (c) Organization for Economic Cooperation and Development
- (d) World Trade Organization

93. Consider the following regions:

1. The Indo-Burma Region
2. Terai-Duar Savannah grasslands
3. The Sundarbans
4. The Himalayas

Which of the above are biodiversity hotspot(s)?

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

- (d) 1, 2, 3 and 4

94. Consider the following statements with respect to Indian Rhinos:

1. They are endemic to India.
2. They mark their territorial boundaries by Scent-marking.
3. They have a gestation period of 16 months, after which the female rhinos usually leave a gap of 3 years for the next pregnancy.
4. Their horns are permanent and, if damaged it doesn't regrow.

How many of the statements mentioned above are correct?

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

95. What is/are unique about 'Brahma Kamal', a species found in India?

1. It is a nocturnal blooming flower.
2. It can thrive in harsh conditions.
3. It is found at 4500 to 5000m altitudes in the Himalayas.

Select the correct answer using the codes given below:

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

96. Recently, India's first ever pilot project for Underground Coal Gasification was proposed in which of the following states?

- (a) Odisha
- (b) Jharkhand
- (c) West Bengal
- (d) Chattisgarh

97. Consider the following:

1. Finless Porpoise
2. Dugong
3. Himalayan Serow
4. Indian Flying Fox
5. Greater Flamingo
6. Neel kurinji

How many of the species mentioned above are protected under Schedule I of the Wildlife Protection Act 1972?

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

98. With reference to India's biodiversity, Northern Shoveler, Nilgiri Laughing thrush, and Garganey are,

- (a) Birds
- (b) Reptiles
- (c) Primates
- (d) Amphibians

99. Which among the following countries launched the world's first wooden satellite to combat space pollution?

- (a) India
- (b) Russia
- (c) Japan
- (d) USA

100. Consider the following information:

Type of Biotic Interaction - Description - Example

1. Parasitism - One species benefits, the other is harmed during the interaction
- Lice on humans
2. Commensalism - Both species benefit from the interaction - Pollinators like bees and flowers
3. Amensalism - Both species are harmed during the interaction - Large tree shades a small plant

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

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