

1. Consider the following statements regarding cryogenic engines :

1. Cryogenic engines are capable of running at a very low temperature.
2. The fuel used is liquid hydrogen and liquid oxygen.
3. To make liquid hydrogen, the minimum temperature required is -253°C and for liquid oxygen is -186°C .
4. In the renewed agreement with Russia, India will import seven cryogenic engines.

Which of the statements given above are correct?

- a. 1, 2 and 4 b. 2 and 4
c. 1, 3 and 4 d. All of these

2. Which of the pair(s) navarasas is/are incorrectly matched?

1. Karuna : Compassion
2. Veera : Valour
3. Shringar : Ornamentation
4. Adbhuta : Wonder

Code

- a. 1, 2 and 3 b. Only 3
c. 2 and 4 d. Only 4

3. Which of the following Centrally Sponsored Schemes (CSS) have been undertaken in the 12th Five Year Plan for environment forestry and wildlife sector?

1. National River Conservation Plan
2. Conservation of Natural Resources and Ecosystems
3. Afforestation and Forest Management
4. Taj Protection
5. Wildlife Management
6. Project Elephant
7. Project Tiger

Select the correct answer using the codes given below.

- a. 1, 2 and 5 b. 1, 2, 3, 5 and 7
c. 3, 4, 6 and 7 d. All of these

4. The Convention on Biological Diversity (CBD) is one of the key agreements adopted during the Earth Summit held at Rio de Janeiro in 1992. Consider the following statements :

1. The convention while reaffirming sovereign rights of nations over their biological resources with establishing three goals of conservation, sustainable use and fair and equitable sharing of the benefits of the use of resources.
2. India hosted the conference on CBD in Hyderabad in 2012 that also marked the 40th anniversary of Stockholm Conference.
3. Indian government has led the provision of setting of Biodiversity Management Committee at union level on cognisance of the International Convention on Biodiversity.
4. Cartagena Biosafety Protocol was negotiated under the Aegis of the Convention on Biological Diversity adopted in 2000 to ensure protection in field and safe transfer of living modified organisms.

Which of the statements about CDB given above are correct?

- a. 1, 2 and 4 b. 1 and 3
c. 2, 3 and 4 d. All of these

5. In which of the following circumstances, Constitution empowers the Parliament to make laws on any matter enumerated in the State list?

1. When Rajya Sabha passes a resolution.
2. During a national emergency.
3. When States make a request.
4. To implement international agreements.
5. During President's rule.

Select the correct answer using the codes given below.

- a. 1, 2 and 3 b. 1, 3 and 4
c. 2 and 4 d. All of these

6. Consider the following statements for the purpose of holding direct elections to the Lok Sabha :

1. Each State is divided into territorial constituencies.
2. Each State is allotted a number of seats in the Lok Sabha in such a manner that the ratio between that number and its population is the same for all States. This provision does not apply to a State having a population of less than a 6 millions.
3. Each State is allotted a number of seats in the Lok Sabha in such a manner that the ratio between the population of each constituency and the number of seats allotted to it is the same throughout the State.

Which of the statements given above are correct?

- a. 1 and 3 b. 1 and 2
c. 2 and 3 d. All of these

7. Which of the following pairs are correctly matched?

Biodiversity Hotspot	Location
1. Sundaland	Eastern Africa
2. Wallacea	South-East Asia
3. Succulent Karoo	South Africa
4. Cerrado	South America

- Code**
 a. 1, 2 and 3 b. 2, 3 and 4
 c. 1, 3 and 4 d. 1, 2 and 4

8. Which of the following is/are the potential consequences of Free Trade Agreement (FTA) between India and ASEAN?

1. Increased employment opportunities between both.
2. Violation of WTO global trading norms.
3. To enhance the investment through Foreign Direct Investment (FDI) from ASEAN into India.

Select the correct answer using the codes given below.

- a. 1 and 3 b. 1 and 2
 c. 2 and 3 d. Only 1

9. Which of the following is/are the results of the foreign investment in the National Manufacturing and Investment Zones (NMIZs)?

1. Increase in India's Current Account Deficit (CAD).
2. Supplement domestic expertise and resources.
3. De-congestion of nearby urban areas.

Select the correct answer using the codes given below.

- a. 2 and 3 b. Only 3
 c. 1 and 2 d. All of these

10. Consider the following statements :

1. Different school of arts like Central Asian, Gandhara and Mathura rose in Kushan empire.
2. Influence of Gandhara art spread till Mathura, which was primarily a centre of indigenous art.
3. Images of Buddha in Gandhara style were made in the Graeco Roman style and his hair was fashioned in the Graeco Roman style.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
 c. 1 and 3 d. All of these

11. Consider the following statements about Eastern hills or mountains :

1. These parts of the Himalayas mountain system have general alignment in East-West direction.
2. These are low altitude hills inhabited by numerous tribal groups practising Jhum cultivation.
3. The Molassis basin of Mizoram has soft and unconsolidated soil deposits.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
 c. 1 and 3 d. All of these

12. Consider the following statements regarding preventive detention :

1. Even a person under preventive detention does have the right to consult and be defended by a legal practitioner or a lawyer under Article-22.
2. Being a subject related to the security of the nation, only the Parliament can make laws on preventive detention, the State Legislatures cannot.
3. India is the only nation to have a preventive detention law in the world as of now.

Which of the statement(s) given above is/are correct?

- a. 2 and 3 b. 1 and 3
 c. 1 and 2 d. Only 3

13. Consider the following statements with reference to hybridisation in crops :

1. Only way of incorporating desirable characters into crop varieties is by hybridisation.
2. Hybridisation refers to crossing between genetically dissimilar plants.
3. This crossing may be intervarietal (between different varieties), interspecific (between two different species of the same genus) or intergeneric (between different genera).

Which of the statement(s) given above is/are incorrect?

- a. Only 1 b. 2 and 3
 c. 1 and 2 d. None of these

14. Which of the following are the objectives of the Science, Technology and Innovation (STI) Policy 2013?

1. Positioning India among the top five global scientific powers by 2020.
2. Raising Gross Expenditure in Research and Development (GERD) to 2% from the present 1% of the GDP in this decade by encouraging enhanced private sector contribution.
3. India has declared 2010-20 as the 'Decade of Innovation'.
4. A strong and visible Science, Research and Innovation System for High Technology led path for India (SRISHTI).

Select the correct answer using the codes given below.

- a. 1 and 2 b. 1, 2 and 3
 c. 3 and 4 d. All of these

15. The Defence Research and Development Organisation (DRDO) successfully test-fired Nag anti-tank missile. Which of the following is not a feature of Nag missile?

- a. It is a third generation fire-and-forget missile
- b. It is equipped with top attack capability to nullify the explosive reactive armour of a battle tank
- c. It cannot be fired during night
- d. It can be fired against both moving and fixed targets

16. Consider the following statements with reference to the Indus Water Treaty, 1960 :

1. Under the treaty, the waters of Western rivers of the Indus river system are allocated to India.
2. India is under obligation to let flow the waters of the Eastern rivers of the Indus river system except for the uses such as domestic use, non-consumptive use, agricultural use as specified and generation of hydro-electric power as specified.
3. India is under no obligation to supply information of its storage and hydro-electric projects as specified.
4. This treaty was brokered by International Bank for Reconstruction and Development between India and Pakistan.

Which of the statement(s) given above is/are correct?

- a. 1, 2 and 3 b. 2, 3 and 4
 c. 3 and 4 d. Only 4

17. Consider the following statements :

1. WC Bannerjee was a notable absentee in the first session of Congress in 1885.
2. WC Bannerjee founded Indian National Association in 1876. He was busy with it during the first session of Congress.
3. Dadabhai Naoroji was the first President of the Indian National Congress. He was the person who gave it the name of Congress from union.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
 c. All of these d. None of these

18. Consider the following statements regarding seismic waves:

1. There are two types of body waves. They are called P and S waves.
2. The P-waves are similar to light waves and S-waves are similar to sound waves.
3. The P-waves are slower than S-waves.
4. P-waves can travel through gaseous, liquid and solid materials while S-waves can travel only through solid materials.

Which of the statements given above are correct?

- a. 1, 2 and 3 b. 1, 3 and 4
c. 1 and 4 d. All of these

19. Consider the following statements :

1. Indian economy nearly stagnated under colonial rule.
2. Foreign investment was discouraged in the early decades post-independence.
3. Central economic planning in India started only after independence.

Which of the statement(s) given above is/are correct?

- a. 1 and 2 b. Only 3
c. 2 and 3 d. All of these

20. Consider the following statements with reference to the Rajiv Gandhi Panchayat Sashaktikran Abhiyan (RGPSA) scheme :

1. The schemes of Rashtriya Gram Swaraj Yojana (RGSY), e-Panchayat, Panchayat Empowerment and Accountability Incentive Scheme (PEAIS) and Panchayat Mahila Evam Yuva Shakti Abhiyan (PMEYSA) will be subsumed in RGPSA from 2013-14.
2. The funding of RGPSA for State plans is envisaged on a 90:10 sharing basis by the Central and all State governments respectively.
3. During the 12th Plan, grants to State Election Commissions are linked to the performance under RGPSA.
4. Constitution of State Finance Commission (SFC), every 5 years and placement of Action Taken Report (ATR) on the recommendations of the SFC in the State Assembly is a must to avail funds under RGPSA.

Which of the statements given above are correct?

- a. 1, 2 and 3 b. 1, 3 and 4
c. 2 and 4 d. All of these

21. Consider the following statements with respect to a lake :

1. It is located on the Eastern side of Srinagar city in Kashmir.
2. It is considered an Oxbow lake of the Jhelum river.
3. It is suffering from the problem of excessive sedimentation.
4. The lake has some interesting flora like lotus flowers, water lilies and water chestnut.

Which of the following lakes rightly fulfil all of the above criteria?

- a. Gumsar lake
b. Tso Moriri lake
c. Dal lake
d. Pangong TSO

22. Consider the following statements regarding superconductivity :

1. Superconductivity is a phenomenon observed in several metals and ceramic materials.
2. Superconductivity is a phenomenon of exactly zero electrical resistance.
3. It shows expulsion of magnetic fields occurring in certain materials when cooled below a characteristic critical temperature.
4. It is not characterised by the Meissner effect, in which complete ejection of magnetic field lines from the interior of the superconductor.

Which of the statements given above are correct?

- a. 1, 3 and 4 b. 1, 2 and 3
c. 1 and 2 d. All of these

23. Storing water in the form of groundwater is often considered to be a better option than storing it in surface reservoirs. What can be the possible reasons behind it?

1. Unlike surface water, groundwater can always be free of contaminants.
2. Evaporation of surface reservoirs is higher as compared to groundwater.
3. Stagnated surface water provides a breeding ground for disease vectors.
4. Even nearby wells can be recharged and water need not be conveyed to each well.

Select the correct answer using the codes given below.

- a. 1 and 4
b. 2, 3 and 4
c. 1, 2 and 3
d. All of the above

24. Consider the following statements:

1. The hydrogen bomb is based on thermonuclear fission reaction.
2. The fundamental physics of the fission chain reaction in a nuclear weapon is quite different to the physics of a controlled nuclear reactor. Also, the two types of devices are engineered differently.
3. No industrialised nation has been able to meet even one-fourth of its total demand of energy from nuclear reactors.

Which of the statement(s) given above is/are correct?

- a. 1 and 2 b. Only 3
c. All of these d. None of these

25. Consider the following statements :

1. The last Mauryan ruler, Brihadratha was assassinated by his commander-in-chief, Pushyamitra Sunga.
2. The last Sunga king, Devabhuti was assassinated by his Brahmana Minister Vasudeva Kanva who anned the throne.
3. The last ruler of the Kanva dynasty was deposed by the Andhras.

Which of the statement(s) given above is/are correct?

- a. 1 and 2 b. Only 2
c. Only 3 d. All of these

26. 'Critically endangered' is the highest risk category assigned by the IUCN to wildlife species. Which of the following are correctly the part of criteria used by the IUCN to declare a specific animal as critically endangered?

1. Population have declined or will decrease, by greater than 80% over the last 10 years or 3 generations.
2. Have a wide geographical range.
3. High probability of extinction in the wild.
4. Small population size of less than 250 individuals and continuing decline at 25% in 3 years or 1 generation.
5. Very small or restricted population of fewer than 5000 mature individuals.
6. It must be found in at least 2 countries.

Select the correct answer using the codes given below.

- a. 1, 3 and 4
b. 1, 2, 3 and 4
c. 2, 3, 5 and 6
d. All of the above

27. Recently, biodiversity hotspots are common talk in ecological discussion. Which of the following statements regarding hotspots are correct?

1. The concept of biodiversity hotspot was originated by Norman Myers.
2. Biodiversity hotspots are areas with high diversity of locally endemic species.
3. India has 3 biodiversity hotspots i.e. Himalayas, Western Ghats and Eastern Ghats regions.
4. To be a biodiversity hotspot, a region must contain at least 3% of plants as endemic and it has to have lost at least 50% of its primary vegetation.

Select the correct answer using the codes given below.

- a. 1 and 2 b. 2 and 3
c. 1 and 4 d. All of these

28. Consider the following statements with reference to lightning :

1. During storms, negative and positive charges meet in the clouds, producing streaks of bright light and sound. The process is called an electric discharge.
2. During lightning it is not safe to use mobile phone, but it is safe to use a landline.
3. Carrying umbrella is not a good idea at all during thunderstorms.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
c. 1 and 3 d. All of these

29. Consider the following statements regarding Brown label ATMs:

1. Banks outsource the ATM operations to a third party: (Brown label ATMs).
2. Brown label ATMs do not have any bank's logo.
3. Companies operating Brown label ATMs have to separately get license/permission from RBI to run business.

Which of the statement(s) given above is/are correct?

- a. Only 1 b. 2 and 3
c. 1 and 3 d. All of these

30. Which of the following descriptions best describes soil texture?

- a. Arrangement of soil minerals
- b. The way in which individual particles of sand, silt and clay are assembled
- c. Proportion of air, water and soil

d. Relative content of sand, silt and clay in a soil

31. Consider the following statements regarding Wavell Plan (1945) :

1. Wavell Plan proposed formation of interim government before proceeding for the work of framing Constitution.
2. It proposed balanced representation of Muslims and caste Hindus in the interim government.
3. All members of the Central Executive Council barring the Governor-General were to be Indians.
4. Defence of India was to be in the hands of Prime Minister of interim government.

Which of the statements given above are incorrect?

- a. 1, 2 and 4 b. 2, 3 and 4
c. 3 and 4 d. 1, 3 and 4

32. Consider the following statements about the 'Great Indian Desert' :

1. This region lies in the North-West of the Aravali hills, has arid climate.
2. During the Mesozoic era, this region was under the sea.
3. This was proven by the marine deposits found around Brahmsar, Jaisalmer which date back to 180 million years.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
c. 1 and 3 d. All of these

33. Which of the following pairs are incorrectly matched?

1. Harshavardhan: Ratnavali, Priyadarshika
2. Banabhatta : Harshacharita, Nagananda
3. Bhartrihari : Vakyapadiya, Kadambari

Code

- a. 1 and 2 b. 2 and 3
c. 1 and 3 d. All of these

34. Consider the following Hindu Gods :

1. Indra
2. Vishnu
3. Varun
4. Shiv
5. Agni
6. Aditi
7. Usha

Which of the above Gods were worshipped during the Rigvedic Age?

- a. 1, 3 and 5 b. 1, 2, 4 and 5
c. 1, 3, 5, 6 and 7 d. All of these

35. Consider the following statements regarding the national park and sanctuary in India :

1. Dachigam National Park is natural habitat for Kashmiri stag.
2. Nandankandan National Park in West Bengal serves as the natural habitat of giant salt water crocodile in India.
3. Bhitarkanika in Odisha is home to nearly extinct Asiatic lions in India.

Which of the statement(s) given above is/are correct?

- a. Only 1 b. 1 and 2
c. 2 and 3 d. 1 and 3

36. Consider the following statements on Weekly Iron Folic acid Supplementation (WIFS) programme :

1. Iron folic acid tablet can be taken during illness and even during menstruation.
2. The Weekly Iron Folic Acid Supplementation (WIFS) is an evidence based programme for addressing Iron Deficiency Anaemia.
3. If taken on empty stomach, these tablets can even cause death in many cases of children.
4. This programme is restricted to the children between class 4th to class 12th as children below 4th standard are vulnerable to side effects.

Which of the statements given above are correct?

- a. 1 and 2 b. 1 and 3
c. 1, 2 and 3 d. All of these

37. Consider the following statements :

1. In recent times, the legislature has lost the initiative in policy making to the executive.
2. The policy laid down by the legislature finds expression through the laws made or resolutions passed by it.
3. In the developing countries, the executive has been even more influence in policy making than in developed countries.
4. In the developing countries, pressure groups have little influence or impact over policy making out due to their lack of coordination.

Which of the statements given above are correct?

- a. 1, 2 and 3 b. 1 and 4
c. 2, 3 and 4 d. All of these

38. The PMO provides secretarial assistance and crucial advice to the Prime Minister. Which of the following are the functions of PMO?

1. Assisting the Prime Minister in respect of his overall responsibilities as head of the government, like maintaining coordination with Central Ministers and the State government.
2. Helping the Prime Minister in respect of his responsibilities as Chairman of the NDC.
3. Providing assistance to the Prime Minister in the examination of cases submitted to him for orders under prescribed rules.
4. Acting as the think-tank to the Prime Minister.

Select the correct answer using the codes given below.

- a. 1, 2 and 3 b. 1, 3 and 4
c. 2 and 4 d. All of these

39. Consider the following statements about the North-Western Himalayas :

1. The world famous valley of Kashmir and Dal lake lies between the Great Himalayas and the Pir Panjal range.
2. The Kashmir Himalayas are famous for Karewa formations which are glacial clay deposits.
3. Karewa is useful for the cultivation of local variety of saffron.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
c. 1 and 3 d. All of these.

40. Consider the following statements about Lord William Bentinck :

1. Infanticide was declared illegal by Bengal Regulation XXI. William Bentinck was main architect of this regulation.
2. William Bentinck was also chief architect in abolition of Sati and suppression of Thuggee.
3. The Doctrine of Lapse also known as Annexations of Peace was also implemented by Lord William Bentinck for the first time.

Which of the statement(s) given above is/are correct?

- a. 1 and 2 b. 1 and 3
c. 2 and 3 d. Only 2

41. There are the four venomous snake species responsible for causing the most human snake bite cases in South Asia (mostly in India). Which of the following is not one among the 'big four'?

- a. Indian Cobra b. Common Krait
c. Russelly's Viper d. Indian Python

42. Which of the following diseases are caused by virus?

1. Tuberculosis 2. Bubonic plague
3. Hepatitis-B 4. Polio
5. Measles 6. Cholera
7. Chicken pox

Select the correct answer using the codes given below

- a. 1, 2, 3 and 4 b. 1, 4, 5 and 6
c. 2, 3, 5 and 7 d. 3, 4, 5 and 7

43. Consider the following statements about folk theatre of Nautanki :

1. The word 'Nautanki' comprises two words 'naw' meaning 'nine' and 'tank' referring to the different 'rasas' of theatre.
2. It consists of mythological dramas with interludes of folk songs and dances.
3. Nautanki lacks in the participation of female performers.

Which of the statement(s) given above is/are correct?

- a. 1 and 2 b. Only 2
c. Only 1 d. All of these

44. Generally we consider drugs and medicines as same but there is difference between them. Which of the statements given below are correct regarding drugs and medicines?

1. Drugs are chemicals of high molecular masses.
2. Medicines interact with macromolecular targets and produce a non-therapeutic biological response.
3. If taken in doses higher than those recommended, most of the drugs used as medicines are potential poisons.
4. Drugs usually interact with biomolecules such as carbohydrates, lipids, proteins and nucleic acids.

Select the correct answer using the codes given below.

- a. 1 and 2 b. 3 and 4
c. 1, 2 and 4 d. All of these

45. Consider the following statements regarding Anglo-Mysore Wars :

1. First Anglo-Mysore War saw Tipu Sultan to maintain his strength against the Britishers.
2. Treaty of Mangalore concluded the Second Anglo-Mysore War.
3. Tipu Sultan died during the Third Anglo-Mysore War and Britisher gained full control over Mysore.

Which of the statement(s) given above is/are correct?

- a. 1 and 2 b. 1 and 3
c. 2 and 3 d. Only 2

46. Which of the following are methods of soil conservation?

1. Mulching 2. Contour Barriers
3. Rock Dam 4. Intercropping
5. Shelter Belts

Select the correct answer using the codes given below.

- a. 1, 2 and 4 b. 1, 3 and 4
c. 2, 3 and 5 d. All of these

47. Consider the following statements regarding the deforestation :

1. Deforestation is a contributor to global warming and is often cited as one of the major causes of the enhanced greenhouse effect.
2. Deforestation reduces soil cohesion. So that erosion, flooding and landslides ensue.
3. Deforestation on a human scale results in decline in biodiversity and on a natural global scale is known to cause the extinction of many species.
4. It also results in groundwater getting lowered.
5. In deforested areas, the land heats up faster and reaches a higher temperature, leading to localised upward motions that enhance the formation of clouds and ultimately produce more rainfall.

Which of the statements given above are correct?

- a. 2, 3 and 4 b. 1, 3 and 5
c. 1, 2, 4 and 5 d. All of these

48. Which of the following constitute the favourable condition for formation of delta?

1. Considerable erosion in upper course of the river.
2. Presence of tidal current at the mouth of delta.
3. Shallow sea at the mouth of river.
4. Existence of lake in course of the river.

Select the correct answer using the codes given below.

- a. 1 and 2 b. 1 and 3
c. 1, 2 and 3 d. 2 and 3

49. Consider the following statements :

1. Commercialisation of agriculture was one of the root cause of Deccan Riots of 1875.
2. Civil War of America, led to cotton boom in the Deccan region. But the benefits reaped by this turned negative once wars get over their. Farmers were loaded with loan burden.

Which of the statement(s) given above is/are correct?

- a. Only 1
b. Only 2
c. Both 1 and 2
d. Neither 1 nor 2

50. Consider the following statement regarding laser :

1. A laser consists of a gain medium, a mechanism to supply energy to it.
2. The gain medium is a material with properties that do not allow it to amplify light by stimulated emission.
3. Most practical laser contain additional elements that affect properties of the emitted light such as the polarisation, the wavelength and the shape of the beam.
4. Laser has not the properties, namely, high monochromaticity, coherence and directionality.

Which of the statements given above are correct?

- a. 1 and 4
b. 2 and 3
c. 1, 2 and 3
d. 1 and 3

51. Consider the following statements about VD Savarkar :

1. VD Savarkar published 'the Indian War of Independence' about the rebellion of 1857.
2. VD Savarkar formed Anushilan Samiti to harm Britishers and clear the path for Indian Independence.
3. VD Savarkar was sentenced two lifetime imprisonment to Cellular Jail in Andaman and Nicobar islands.

Which of the statements given above are correct?

- a. 1 and 2
b. 2 and 3
c. 1 and 3
d. All of these

52. What advantages are offered by Fly ash concrete in comparison to concrete made with only cement?

1. It saves water.
2. It lowers heat of hydration.
3. It reduces the corrosion of steel.
4. The concrete quickly becomes strong.

Select the correct answer using the codes given below.

- a. 1 and 4
b. 2 and 3
c. 2, 3 and 4
d. All of these

53. Consider the following statements :

1. The National Urban Health Mission (NUHM) and the National Rural Health Mission (NRHM) schemes have been now clubbed under Sarva Swasthya Abhiyaan.

2. The NUHM was proposed for the urban poor with focus on those living in urban slums.

3. One Accredited Social Health Activist (ASHA) (community link worker) for 200 to 500 households will work under NUHM scheme.

Which of the statement(s) given above is/are correct?

- a. 1 and 2
b. 2 and 3
c. Only 3
d. Only 2

54. Consider the following statements regarding Rajasthan style of paintings :

1. Rajasthan style of paintings combined Arabian style of paintings with Western Indian schools and Jain styles.
2. It eliminated the court scenes and hunting scenes prevailing in the painting and replaced it with mythological themes.

Which of the statement(s) given above is/are correct?

- a. Only 1
b. Only 2
c. Both 1 and 2
d. Neither 1 nor 2

55. From which of the following processes is the energy responsible for generation of endogenic forces derived?

1. Radioactivity
2. Rotational and tidal friction
3. Primordial heat from the origin of the Earth

Select the correct answer using the codes given below.

- a. Only 1
b. 1 and 3
c. 2 and 3
d. All of these

56. Which of the following statements is correct regarding anaerobic respiration?

- a. Anaerobic respiration plays a major role in the global nitrogen, sulphur and carbon cycles
- b. Including muscles and other tissues, all the cells in human bodies respire only aerobically
- c. Anaerobic respiration is used mainly by eukaryotes that live in environments devoid of oxygen
- d. All of the above

57. The fusion reaction is said to be the future source of energy. What are the conditions needed to achieve fusion reaction?

- a. Extremely high pressure and extremely low temperature
- b. Extremely low pressure and extremely low temperature
- c. Extremely high pressure and extremely high temperature
- d. Extremely low pressure and extremely high temperature

58. Which of the following is/are provisions under 'E-waste (Management and Handlings) Rules, 2011'?

1. It specifies threshold for use of hazardous material including Pb, Hg and Cd.
2. It introduced the concept of 'Extended Producer Responsibility' (EPR), with some exceptions.
3. Under EPR, producer is also entrusted with the responsibility to finance the costs involved in complying EPR.

Select the correct answer using the codes given below.

- a. Only 1
b. 1 and 2
c. Only 2
d. All of these

59. Which of the following statement(s) is/are correct?

1. In India, the constitutional remedy under Article-32 is available only in case of Fundamental Rights, not in case of rights which follow from some other provision in the Constitution.
2. Both the Supreme Court and High Court can issue the writs of Habeas Corpus, Mandamus, Prohibition, Certiorari and Quo warranto, for the purpose of enforcement of Fundamental Rights.

Select the correct answer using the codes given below.

- a. Only 1
b. Only 2
c. Both 1 and 2
d. Neither 1 nor 2

60. Consider the following statements :

1. The office of whip is mentioned neither in the Constitution nor in the rules of the house nor in a Parliamentary statute.
2. Every political party, whether ruling or opposition has its own whip in the Parliament.
3. Whip is appointed by the Political Party to serve as an assistant floor leader.

Which of the statements given above are correct?

- a. 1 and 2
b. 2 and 3
c. 1 and 3
d. All of these

61. Which of the following factors have caused recent ballooning of India's trade deficit with China?

1. Low export of iron ore from India.
2. Indian ban on power equipments from China.
3. Protectionist measures adopted by China.
4. Eurozone economic slowdown.

Select the correct answer using the codes given below.

- a. 3 and 4 b. 1 and 2
c. 1 and 3 d. All of these

62. Which of the following is/are true about Double Tax Avoidance Agreements (DTAAs)?

1. It always lowers the annual gross tax revenue generated in the host country.
2. It is in the interest of investing individuals/companies.
3. May encourage round-tripping of money.

Select the correct answer using the codes given below.

- a. Only 1 b. 2 and 3
c. Only 3 d. All of these

63. Casuarina plants are important xerophytic species. Consider the following statements regarding casuarina plants :

1. These plants are confined to Western India and some semi-arid regions of Central India.
2. Roots are one of the principal organ of primary importance and extensively mechanical roots are there.
3. Roots are thickly covered on the upper layer of the soil.
4. Casuarina plants are used as a tonic and treatment of stomach complaints.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 4
c. 1, 2 and 3 d. All of these

64. Ecological succession culminates in climax species. Consider the following statements about ecological succession :

1. Clement gives the first idea about climax community.
2. Climax stage is comparatively stable stage of succession that led to make a biome.
3. Climax communities are more complex and more diversified.
4. Climatic condition is a deciding factor in establishing climax succession.

Which of the statements given above are correct?

- a. 2 and 3 b. 1 and 2
c. 2, 3 and 4 d. All of these

65. Consider the following statements about the recently launched Jason-3 mission.

1. It is expected to help the USA in better forecasting of hurricane.

2. Jason-3 satellite will examine the human-induced changes on the ocean.

3. It will not extend the time series of ocean surface topography measurement.

Which of the statement(s) given above is/are correct?

- a. Only 1 b. 2 and 3
c. 1 and 3 d. 1 and 2

66. Consider the following statements :

1. The first hour of every parliamentary sitting is slotted for question hour.
2. The zero hour starts immediately after the question hour and lasts until the agenda for the day is taken up.
3. The questions included in the question hour are starred, unstarred, short notice and long notice questions.
4. Zero hour is an Indian innovation in the field of parliamentary proceedings.

Which of the statements given above are correct?

- a. 1, 2 and 4 b. 1, 3 and 4
c. 2 and 3 d. All of these

67. President of India can declare National Emergency on the grounds of

1. war
2. external aggression
3. natural disaster
4. armed rebellion
5. imminent danger

Select the correct answer using the codes given below.

- a. 2, 3 and 4 b. 1, 3, 4 and 5
c. 1, 2, 4 and 5 d. 1, 2, 3 and 5

68. Consider the following statements :

1. Varahamihira proved that the Moon rotates around the Earth and the Earth rotates around the Sun in his book Varahasamhita.
2. Sushruta described the method of operating cataract, stone disease and several other ailments in his book Sushrutasamhita.
3. Charaka describes various fevers and diseases in his book over medicine known as Charakasamhita.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
c. 1 and 3 d. All of these

69. The Gross National Happiness (GNH) index differs or is similar to HDI. Which of the following respects?

1. HDI focuses mainly on the non-material side of development similar to the GNH.

2. GNH includes a responsive, transparent and accountability government as an important indicator of development unlike the HDI.

3. HDI values are affected by the levels of ecological degradation and imbalances.

Select the correct answer using the codes given below.

- a. Only 2 b. 1 and 2
c. Only 1 d. All of these

70. The government of India has come up with a new Consumer Price Index (CPI). With respect to the new Consumer Price Index, consider the following statements.

1. Consumer Price Index is released every month.
2. The common base year for CPI is 2012.
3. Consumer Price Index represents the wholesale price of goods paid by the households for a basket of goods and services.
4. More weightage is given to the manufacturing items under CPI.
5. Housing forms one of the five major groups for which Consumer Price Index is available for both rural and urban areas.

Which of the statement(s) given above is/are correct?

- a. Only 1 b. 1, 3 and 5
c. 2, 4 and 5 d. 1, 2, 3 and 4

71. Consider the following statements with reference to herbivores :

1. Due to the herbivore's ability to survive solely on tough and fibrous plant matter, they are termed the primary consumers in the food cycle (chain).
2. Tamaraw and Giant eland are not considered as herbivores.
3. Herbivores principally eat autotrophs.

Which of the statement(s) given above is/are correct?

- a. 1 and 2 b. 1 and 3
c. Only 3 d. 2 and 3

72. "Series of protected areas linked through a global network, intended to demonstrate the relationship between conservation and development". This definition refers to which of the following?

- a. National Park b. Biosphere Reserve
c. Wildlife Sanctuary
d. Natural Heritage Site

73. Which of the following statement(s) is / are correct with respect to cosmic rays?

1. They are made up of only positively charged particles.
2. The major source of cosmic rays in universe is Sun.
3. They cause ozone depletion.

Select the correct answer using the codes given below.

- a. 1 and 2 b. 2 and 3
c. Only 3 d. All of these

74. Who cannot participate in the election of the President?

1. Nominated members of both the houses.
2. Nominated members of the Legislative Assembly.
3. Nominated and elected members of State Legislative Council.
4. Nominated members of the Legislative Assemblies of Delhi and Puducherry.

Select the correct answer using the codes given below.

- a. 1, 2 and 3 b. 1, 3 and 4
c. All of these d. None of these

75. The universal declaration of human rights was adopted by the UN General Assembly in 1948. This declaration consists of 30 Articles which can be divided into four parts. Consider these statements about the four parts.

1. The first two articles contain the basic principles underlying all human rights.
2. Articles-3 - 21 consist of civil and political rights.
3. Articles-22 - 27 contain economic, social and cultural rights.
4. The last 3 articles specify the context within which all the human rights are to be enjoyed.

Which of the statements given above are correct?

- a. 1, 2 and 3 b. 1, 3 and 4
c. 2 and 4 d. All of these

76. Arrange the following mountain ranges from North to South :

1. Karakoram ranges
2. Ladakh range
3. Zaskar range
4. Pir Panjal range

Code

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

77. Consider the following statements about the Islands the Arabian sea :

1. The Islands of the Arabian sea include Lakshadweep and Minicoy.
2. The entire island group is built of coral deposits.
3. The entire group of islands is broadly divided by the 10° channel, North of which is Cannanore Island and to the South is the Amini Island.
4. The islands of this archipelago have storm beaches.

Which of the statements given above are correct?

- a. 1, 2 and 3 b. 1, 3 and 4
c. 1, 2 and 4 d. 2, 3 and 4

78. Which of the following statements about generic drugs are correct?

1. A generic drug is a pharmaceutical product that is manufactured without a license from the innovator company and marketed after the expiry date of the patent or other exclusive rights.
2. Generic drugs are subject to the same regulations over manufacturing, packaging, testing and quality standards, as their patented / branded equivalent.
3. Prices of the branded/patented drugs are generally quite high, due to the temporary monopoly over the product, bestowed by the patent.
4. At 'Jan Aushadhi stores', where quality generic medicines, which are equivalent to the expensive branded drugs, in terms of their potency and efficacy are sold at cheaper prices.

Select the correct answer using the codes given below.

- a. 1 and 2 b. 2 and 3
c. 1, 3 and 4 d. All of these

79. Consider the following statements about the architecture of Medieval Mosques :

1. The pulpit (mimbar) of a mosque is meant for the imam who leads the prayer.
2. The minaret or tower which was built for mere architectural purpose, later was utilised by 'muazzin' to call the followers for prayers.
3. The prayer hall pointed towards West of India.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
c. 1 and 3 d. All of these

80. Which of the following are the techniques adopted to stop soil erosion in dry lands?

1. Terrace farming
2. Contour ploughing
3. Afforestation
4. Shelter belts
5. Plugging gullies

Select the correct answer using the codes given below.

- a. 1, 2 and 3 b. 3, 4 and 5
c. 1, 2 and 4 d. 2, 3 and 4

81. Alluvial fans are formed when streams flowing from higher levels break into foot slope plains of low gradients. Which one of the following could be the reason?

- a. Load content of the stream reaches above saturation point
- b. Load that is being carried by stream over the mountain slopes becomes too heavy to carry over gentler gradients
- c. Due to natural vegetation at mountain foot
- d. None of the above

82. Consider the following statements :

1. A person who is not a member of either House of Parliament can be appointed as the Prime Minister.
2. A person must prove his majority in the Lok Sabha before he is appointed as the Prime Minister.
3. He must be a member of any of two Houses of Parliament.
4. Article-75 says only that the Prime Minister shall be appointed by the President.

Which of the statements given above are incorrect?

- a. 1 and 2 b. 2 and 4
c. 1, 3 and 4 d. 3 and 4

83. Consider the following statements regarding rights of women enshrined in the Constitution of India :

1. As per Article-51A (e) it shall be the duty of every citizen of India to renounce the practices derogatory to the dignity of women.
2. As per Article-39 (e) the State is required to ensure that the health and strength of women workers are not abused and that they are not forced by economic necessity to enter avocations unsuited to their strength.
3. Protection of women form Domestic Violence Act (2005) is a comprehensive legislation to protect women from all forms of domestic violence.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
c. All of these d. None of these

84. Consider the following statements :

1. As India implements Goods and Services Tax (GST), it may be appropriate to calculate National Income at current prices.
2. Developed nations generally calculate their National Income at market cost at current prices as they have a uniform taxation regime.

Which of the statement(s) given above is/are correct?

- a. Only 1 b. Only 2
c. Both 1 and 2 d. Neither 1 nor 2

85. Consider the following statements with reference to the prohibition of employment as manual scavengers and their Rehabilitation Act, 2013 :

1. Offences under the act are non-cognisable and bailable.
2. It seeks to rehabilitate manual scavengers and provide for their alternative employment.
3. The act prohibits the employment of manual scavengers, the manual cleaning of sewers and septic tanks without protective equipment and the construction of insanitary latrines.
4. The act has a wider scope and higher penalties than the 1993 Act.

Which of the statements given above are correct?

- a. 1 and 3 b. 2 and 3
c. 2, 3 and 4 d. 2 and 4

86. System for Air Quality Forecasting and Research (SAFAR). It is computerised system developed by Indian Institute of Tropical Meteorology (IITM), Pune with the help of Indian Meteorological Department (IMD). Consider the following statements regarding SAFAR :

1. It provides data on Air Quality Index, UV index and dynamic city pollution map.
2. Quality of air can forecast 24-72 hours in advance.
3. Operational in Delhi, Pune and Ahmedabad.

Which of the statements given above are correct?

- a. 2 and 3 b. 1 and 2
c. All of these d. None of these

87. Consider the following statements regarding 3D printing

1. 3D printing is also called additive manufacturing.
2. It can print only on plastic or polyethylene material.
3. The technology is still in development stage and is not commercially available.

Which of the statement(s) given above is/are correct?

- a. Only 1 b. 1 and 2
c. 2 and 3 d. All of these

88. Which of the following pairs are correctly matched?

1. Tuti Nama : Ziya Nakhshabi
2. Tughlaq Nama : Amir Khusarow
3. Tarikh-i-Firoz : Hasan Shahi
4. Fawaid-ul-Fuad : Barani

Code

- a. 1 and 2 b. 3 and 4
c. 1, 2 and 4 d. 1, 3 and 4

89. The inner walls of the small intestine have thousands of finger like structures called villi. Consider the following statements about these villi :

1. The villi decrease the surface area for absorption of the digested food.
2. Each villus has a network of thin and small blood vessels close to its surface. The surface of the villi absorbs the digested food materials.
3. The absorbed substances are transported via the blood vessels to different organs of the body where they are used to build complex substances such as proteins.

Which of the statements given above are correct?

- a. 1 and 2 b. 2 and 3
c. 1 and 3 d. All of these

90. Which of the following statements is not true about *Ocimum Tenuiflorum* (Tulasi) ?

1. It is mentioned in the Charaka Samhita an ancient Ayurvedic Text.
2. It is considered to be an adaptogen, balancing different processes in the body.
3. It also acts as insect repellent.

Select the correct answers using the codes given below

- a. Only 3 b. 1 and 2
c. 2 and 3 d. None of these

91. Constitution of India provides for which types of responsibility to Council of Ministers?

1. Legal responsibility
2. Collective responsibility

3. Social responsibility
4. Individual responsibility
5. Economical responsibility

Select the correct answer using the codes given below.

- a. 1 and 4 b. 1 and 5
c. 2 and 3 d. 2 and 4

92. Consider the following statements:

1. The Government of India Act, 1919, introduced separate and discriminatory electorate.
2. The Indian Council Act, 1909, raised the number of additional members to the maximum at 60.

Which of the statement(s) given above is/are correct?

- a. Only 1 b. Only 2
c. Both 1 and 2 d. Neither 1 nor 2

93. Consider the following statements about The National Heritage City Development and Augmentation Yojana (HRIDAY) :

1. The Union government launched on January 26, 2015 with a focus on holistic development of heritage sites and the National Advisory Committee (NAC) is the apex advisory body for this scheme.
2. It aims to bring urban planning, economic growth and heritage conservation together for heritage cities.
3. The criterion for selection of the cities is their rich heritage and cultural history.
4. The eleven heritage cities have been identified namely Amravati, Gaya, Dwaraka, Badami, Puri, Amritsar, Ajmer, Kanchipuram, Warrangal, Mathura and Varanasi.

Which of the statements given above are incorrect?

- a. 1 and 4 b. 3 and 4
c. 2 and 3 d. 1, 3 and 4

94. Consider the following statements regarding the Dolphin - Susu :

1. It is a type of Dolphin which can thrive both in freshwater and saltwater.
2. It occurs in rivers of both Ganga and Brahmaputra.
3. It is also called as blind river Dolphin.
4. The presence of Susu is an indication of the health of the river.

Which of the statements given above are correct?

- a. 1 and 2 b. 1, 3 and 4
c. 3 and 4 d. 2, 3 and 4

95. Consider the following statements regarding the election of Vice-President of India.

1. A person should not hold any office of profit under the Union government or any State government or any local authority or any other public authority.
2. A sitting President or Vice-President of the Union, the Governor of any State is not deemed to hold any office of profit and hence, qualified for being a candidate for Vice-President.
3. The nomination of a candidate for election to the office of Vice-President must be subscribed by at least 20 electors as proposers and 20 electors as seconders.
4. Every candidate has to make a security deposit of ₹ 15000 in the RBI.

Which of the statements given above are correct?

- a. 1, 2 and 3 b. 1, 3 and 4
c. All of these d. None of these

96. Consider the following statements about nutrients :

1. Fats give much more energy as compared to the same amount of carbohydrates.
2. Proteins are needed for the growth and repair of our body and they are called as building blocks of body.
3. Vitamins give much more energy than both fats and carbohydrates combined.

Which of the statement(s) given above is /are correct?

- a. 1 and 3 b. 2 and 3
c. Only 2 d. 1 and 2

97. Consider the pairs of critically endangered species and threat to it in India and find the wrong pair.

- a. Sociable lapwing : Conversion of habitat to arable land and settlement
b. Siberian crane : Pesticide pollution in wetland drainage
c. Namdapha flying squirrel : Destruction of habitat
d. The Leatherback Foturtle : Destruction of habitat and high sea fishing operation

98. Which of the following statement(s) regarding relative humidity is/are correct?

1. Coastal regions have high relative humidity as compared to desert areas.
2. Relative humidity of 100% indicates that dew point is equal to the current temperature.
3. Relative humidity of a region is always above 50% .

Select the correct answer using the codes given below.

- a. Only 1 b. 1 and 2
c. 2 and 3 d. All of these

99. Which of the following statement(s) is/are correct with respect to the Polar Satellite Launch Vehicle (PSLV).

1. It is the first operational launch vehicle of ISRO. PSLV is capable

of launching 1600 kg satellites in 620 km sun-synchronous polar orbit and 1050 kg satellite in geo-synchronous transfer orbit.

2. PSLV has four stages using solid and liquid propulsion systems alternately. The first stage is one of the largest solid propellant boosters in the world and carries 139 tonnes of propellant.
3. So far PSLV has launched 87 satellites.

Select the correct answer using the codes given below.

- a. Only 1 b. Only 2
c. All of these d. None of these

100. For Forest Management in India, certain initiatives have been taken up by the government. Find the correct ones in this regard?

1. A centrally sponsored intensification of forest management scheme was taken up.
2. All the North-Eastern States Jammu and Kashmir, Himachal Pradesh and Uttarakhand has given 75% central financial assistance for forest management.
3. Recently incentivised scheme of Joint Forest Management Committees (JFMCs) are set-up to involve local people in protection of forest.

Select the correct answer using the codes given below.

- a. 1 and 3 b. 1 and 2
c. 2 and 3 d. All of these