1. What will follow if a Money Bill is substantially amended by the Rajya Sabha?
   (a) The Lok Sabha may still proceed with the Bill, accepting or not accepting the recommendations of the Rajya Sabha.
   (b) The Lok Sabha cannot consider the Bill further
   (c) The Lok Sabha may send the Bill to the Rajya Sabha for reconsideration
   (d) The President may call a joint sitting for passing the Bill

2. Which one of the following statements is correct?
   (a) In India, the same person cannot be appointed as Governor for two or more States at the same time
   (b) The Judges of the High Court of the States in India are appointed by the Governor of the State just as the Judges of the Supreme Court are appointed by the President
   (c) No procedure has been laid down in the Constitution of India for the removal of a Governor from his/her post
   (d) In the case of a Union Territory having a legislative setup, the Chief Minister is appointed by the Lt. Governor on the basis of majority support

3. Which one of the following pairs is correctly matched?
   Geographical Feature   Region
   (a) Abyssinian Plateau   : Arabia
   (b) Atlas Mountains      : North-Western Africa
   (c) Guiana Highlands     : South-Western Africa
   (d) Okavango Basin       : Patagonia

4. With reference to the history of Indian rock-cut architecture consider the following statements:
   1. The caves at Badami are the oldest surviving rock-cut cage in India.
   2. The Barabar rock-out cage were originally made be Ajivikas by Emperor Chandragupta Maurya.
   3. At Ellora, caves were made by different faiths

   Which of the statements given above is/are correct?
   (a) 1 only
   (b) 2 only
   (c) 3 only
   (d) 1, 2 and 3

5. Recombinant DNA technology (Genetic Engineering) allows genes to be transferred
   1. across different species of plants
   2. from animals to plants
   3. from microorganisms to higher organisms

   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

6. The Chinese traveller Yuan Chwang (Huen Tsang) who visited India recorded the general conditions and culture of India at that time. In this context, which of the following statements is/are correct?
   1. The roads and river-routes were completely immune from robbery.
   2. As regards punishment for offences, ordeals by fire, water and poison were the instruments for determining the innocence or guilt of a person.
   3. The tradesmen had to pay duties at ferries and barrier stations.

   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

7. Consider the following:
   1. Star tortoise
   2. Monitor lizard
   3. Pygmy hog
   4. Spider monkey

   Which of the above are naturally found in India?
   (a) 1, 2 and 3 only
   (b) 2 and 3 only
   (c) 1 and 4 only
   (d) 1, 2, 3, 4 and 5

8. Which of the following can be found as pollutants in the drinking water in some parts of India?
   1. Arsenic
   2. Sorbitol
   3. Fluoride
   4. Formaldehyde
   5. Uranium

   Select the correct answer using the codes given below.
   (a) 1 and 3 only
   (b) 2, 4 and 5 only
   (c) 1, 3 and 5 only
   (d) 1, 2, 3, 4, and 5

9. With reference to Indian History, the Members of the Constituent Assembly from the Provinces were
   (a) directly elected by the people of those Provinces
   (b) nominated by the Indian National Congress and the Muslim League
   (c) elected by the Provincial Legislative Assemblies
   (d) selected by the Government for their expertise in constitutional matters

10. Consider the following animals:
    1. Sea cow
    2. Sea horse
    3. Sea lion

    Which of the above is/are mammal/mammals?
    (a) 1 only
    (b) 1 and 3 only
    (c) 2 and 3 only
    (d) 1, 2 and 3

11. Consider the following statements:
    1. An amendment to the Constitution of India can be initiated by an introduction of a bill in the Lok Sabha only.
2. If such an amendment seeks to make changes in the federal character of the Constitution, the amendment also requires to be ratified by the legislature of all the States of 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

12. Consider the following statements:
Attorney General of India can
1. take part in the proceedings of the Lok Sabha
2. be a member of a committee of the Lok Sabha
3. speak in the Lok Sabha
4. vote in the Lok Sabha

Which of the statements given above is/are correct?
(a) 1 only  (b) 2 and 4  (c) 1, 2 and 3  (d) 1 and 3 only

13. With reference to the usefulness of the by-products of sugar industry, which of the following statements is/are correct?
1. Bagasse can be used as biomass fuel for the generation of energy.
2. Molasses can be used as one of the feedstocks for the production of synthetic chemical fertilizers.
3. Molasses can be used for the production of ethanol.

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

14. Variations in the length of daytime and nighttime from season to season are due to
(a) the earth’s rotation on its axis
(b) the earth’s revolution round the sun in an elliptical manner
(c) latitudinal position of the place
(d) revolution of the earth on a tilted axis

15. The Narmada river flows to the west, while most other large peninsular rivers flow to the east. Why?
1. It occupies a linear rift valley.
2. It flows between the Vindhyas and the Satpuras.
3. The land slopes to the west from Central India.

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

16. On the planet earth, most of the freshwater exists as ice caps and glaciers. Out of the remaining freshwater, the largest proportion
(a) is found in atmosphere as moisture and clouds
(b) is found in freshwater lakes and rivers
(c) exists as groundwater
(d) exists as soil moisture

17. Consider the following pairs:
1. Nokrek Bio-sphere Reserve : Garo Hills
2. Logtak (Loktak) Lake : Barail Range
3. Namdapha National Park : Dafla Hills

Which of the above pairs is/are correctly matched?
(a) 1 only  (b) 2 and 3 only  (c) 1, 2 and 3  (d) None

18. Consider the following:
1. Electromagnetic radiation
2. Geothermal energy
3. Gravitational force
4. Plate movements
5. Rotation of the earth
6. Revolution of the earth

Which of the above are responsible for bringing dynamic changes on the surface of the earth?
(a) 1, 2, 3 and 4 only  (b) 1, 3, 5 and 6 only  (c) 2, 4, 5 and 6 only  (d) 1, 2, 3, 4, 5 and 6

19. Which of the following bodies does not/do not find mention in the Constitution?
1. National Development Council
2. Planning Commission
3. Zonal Councils

Select the correct answer using the codes given below:
(a) 1 and 2 only  (b) 2 only  (c) 1 and 3 only  (d) 1, 2 and 3

20. The demand for the Tebhaga Peasant Movement in Bengal was for
(a) the reduction of the share of the landlords from one-half of the crop to one-third
(b) the grant of ownership of land to peasants as they were the actual cultivators of the land
(c) the uprooting of Zamindari system and the end of serfdom
(d) writing off all peasant debts

21. The Parliament can make any law for whole or any part of India for implementing international treaties
(a) with the consent of all the States
(b) with the consent of the majority of States
(c) with the consent of the States concerned
(d) without the consent of any State

22. In the grasslands, trees do not replace the grasses as a part of an ecological succession because of
(a) insects and fungi
(b) limited sunlight and paucity of nutrients
(c) water limits and fire
(d) None of the above

23. Which one of the following is the correct sequence of ecosystems in the order of decreasing productivity?
(a) Oceans, lakes, grasslands, mangroves
(b) Mangroves, oceans, grasslands, lakes
(c) Mangroves, grasslands, lakes, oceans
(d) Oceans, mangroves, lakes, grasslands

24. Contour bunding is a method of soil conservation used in
(a) desert margins, liable to strong wind action
33. Consider the following organisms:
1. Agaricus 2. Nostoc
3. Spirogyra
Which of the above is/are used as biofertilizer/biofertilizers?
(a) 2 only
(b) 3 only
(c) 1 and 3
(d) None

34. Which of the following adds nitrogen to the soil?
1. Excretion of urea by animals
2. Burning of coal by man
3. Death of vegetation
Select the correct answer using the codes given below.
(a) 1 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) None

35. In which of the following States is lion-tailed macaque found in its natural habitat?
1. Tamil Nadu
2. Kerala
3. Karnataka
4. Andhra Pradesh
Select the correct answer using the codes given below.
(a) 1 and 2 and 3 only
(b) 2 only
(c) 1, 3 and 4 only
(d) 1, 2, 3 and 4

36. Some Buddhist rock-cut caves are called Chaityas, while the others are called Viharas. What is the difference between the two?
(a) Vihara is a place of worship, while Chaitya is the dwelling place of the monks
(b) Chaitya is a place of worship, while Vihara is the dwelling place of the monks
(c) Chaitya is the stupa at the far end of the cave, while Vihara is the hall axial to it
(d) There is no material difference between the two

37. Which one of the following describes best the concept of Nirvana in Buddhism?
(a) The extinction of the flame of desire
(b) The complete annihilation of self
34. According to the Constitution of India, which of the following are fundamental for the governance of the country?
(a) Fundamental Rights
(b) Fundamental Duties
(c) Directive Principles of State Policy
(d) Fundamental Rights and Fundamental Duties

39. The people of India agitated against the arrival of Simon Commission because
(a) Indians never wanted the review of the working of the Act of 1919
(b) Simon Commission recommended the abolition of Diarchy (Diarchy) in the Provinces
(c) there was no Indian member in the Simon Commission
(d) the Simon Commission suggested the partition of the country

40. Quit India Movement was launched in response to
(a) Cabinet Mission Plan
(b) Cripps Proposals
(c) Simon Commission Report
(d) Wavell Plan

41. The balance of payments of a country is a systematic record of
(a) all import and export transactions of a country during a given of time, normally a year
(b) goods exported from a country during a year
(c) economic transaction between the government of one country to another
(d) capital movements from one country to another

42. The Reserve Bank of India regulates the commercial banks in matters of
1. liquidity of assets  
2. branch expansion
3. merger of banks
4. winding up of banks
Select the correct answer using the codes given below.
(a) 1 and 4 only  
(b) 2, 3 and 4 only
(c) 1, 2 and 3 only  
(d) 1, 2, 3 and 4

43. An increase in the Bank Rate generally indicates that the
(a) market rate of interest is likely to fall
(b) Central Bank is no longer making loans to commercial banks
(c) Central Bank is following an easy money policy
(d) Central Bank is following a tight money policy

44. In India, deficit financing is used for raising resources for
(a) economic development
(b) redemption of public debt
(c) adjusting the balance of payments
(d) reducing the foreign debt

45. Which of the following characterizes the people of Indus Civilization?
1. They possessed great palaces and temples.
2. They worshipped both male and female deities.
3. They employed horse-drawn chariots in warfare.
Select the correct answer using the codes given below.
(a) 1 and 2 only
(b) 2 only
(c) 1, 2 and 3
(d) None of the statements given above is correct

46. Which of the following diseases can be transmitted from one person to another through tattooing?
1. Chikungunya
2. Hepatitis B
3. HIV-AIDS
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

47. Which of the following statements is applicable to Jain doctrine?
1. The surest way of annihilating Karma is to practice penance.
2. Every object, even the smallest particle has a soul.
3. Karma is the bane of the soul and must be ended.
Select the correct answer using the codes given below.
(a) Ecotone
(b) Ecological niche
(c) Habitat  
(d) Home range

48. Which of the following terms describes not only the physical space occupied by an organism, but also its functional role in the community of organisms?
(a) Ecotone  
(b) Ecological niche
(c) Habitat
(d) Home range

49. Photochemical smog is a resultant of the reaction among
(a) NO₂, O₃ and peroxyacetyl nitrate in the presence of sunlight
(b) CO, O₂ and peroxyacetyl nitrate in the presence of sunlight
(c) CO, CO₂ and NO₂ at low temperature
(d) high concentration of NO₂, O₃ and CO in the evening

50. Consider the following minerals
1. Calcium
2. Iron
3. Sodium
Which of the minerals given above is/are required by human body for the contraction of muscles?
(a) 1 only
(b) 2 and 3 only
(c) 1 and 3 only
(d) 1, 2 and 3

51. Consider the following statements:
The Parliamentary Committee on Public Accounts
1. consists of not more than 25 members of the Lok Sabha
2. scrutinizes appropriation and finance accounts of the Government
3. examines the report of the Comptroller and Auditor General of India
Which of the statements given above is/are correct?
(a) 1 only
(b) 2 and 3 only
(c) 3 only
(d) 1, 2 and 3
52. Consider the following Bhakti Saints:
   1. Dadu Dayal
   2. Guru Nanak
   3. Tyagaraja
   Who among the above was/were preaching when the Lodi dynasty fell and Babur took over?
   (a) 1 and 3
   (b) 2 only
   (c) 2 and 3
   (d) 1 and 2

53. With reference to the food chains in ecosystems, which of the following kinds of organism is/are known as decomposer organism/organisms?
   1. Virus
   2. Fungi
   3. Bacteria
   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

54. The most important fishing grounds of the world are found in the regions where
   (a) warm and cold atmospheric currents meet
   (b) rivers drain out large amounts of freshwater into the sea
   (c) warm and cold oceanic currents meet
   (d) continental shelf is undulating

55. Which of the following is/are unique characteristic/characteristics of equatorial forests?
   1. Presence of tall, closely set trees with crowns forming a continuous canopy
   2. Coexistence of a large number of species
   3. Presence of numerous varieties of epiphytes
   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

56. Which of the following constitute Capital Account?
   1. Foreign Loans
   2. Foreign Direct Investment
   3. Private Remittances
   4. Portfolio Investment
   Select the correct answer using the codes given below.
   (a) 1, 2 and 3
   (b) 1, 2 and 4
   (c) 2, 3 and 4
   (d) 1, 2 and 3

57. Consider the following historical places:
   1. Ajanta Caves
   2. Lepakshi Temple
   3. Sanchi Stupa
   Which of the above places is/are also known for mural paintings?
   (a) 1 only
   (b) 1 and 2 only
   (c) 1, 2 and 3
   (d) None

58. With reference to the history of philosophical though in India, consider the following statements regarding Sankhya school:
   1. Sankhya does not accept the theory of rebirth or transmigration of soul.
   2. Sankhya holds that it is the self-knowledge that leads to liberation and not any exterior influence or agent.
   Which of the statement given above is/are correct?
   (a) 1 only
   (b) 2 only
   (c) Both 1 and 2
   (d) Neither 1 nor 2

59. In the context of India, which of the following principles is/are implied institutionally in the parliamentary government?
   1. Members of the Cabinet are Members of the Parliament.
   2. Ministers hold the office till they enjoy confidence in the Parliament.
   3. Cabinet is headed by the Head of the State.
   Select the correct answer using the codes given below.
   (a) 1 and 2 only
   (b) 3 only
   (c) 2 and 3 only
   (d) 1, 2 and 3

60. The annual range of temperature in the interior of the continents is high as compared to coastal areas. What is/are the reason/reasons?
   1. Thermal difference between land and water
   2. Variation in altitude between continents and oceans
   3. Presence of strong winds in the interior
   4. Heavy rains in the interior as compared to coasts
   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, 3 and 4

61. Which of the following is/are the characteristic/characteristics of Indian coal?
   1. High ash content
   2. Low sulphur content
   3. Low ash fusion temperature
   Select the correct answer using the codes given below.
   (a) 1 and 2 only
   (b) 2 only
   (c) 1 and 3 only
   (d) 1, 2 and 3

62. Which of the following statements regarding laterite soils of India are correct?
   1. They are generally red in colour.
   2. They are rich in nitrogen and potash.
   3. They are well-developed in Rajasthan and UP.
   4. Tapioca and cashew nuts grow well on these soils.
   Select the correct answer using the codes given below.
   (a) 1, 2 and 3
   (b) 2, 3 and 4
   (c) 1 and 4
   (d) 2 and 4 only

63. Consider the following statements
   1. Natural gas occurs in the Gondwana beds.
   2. Mica occurs in abundance in Kodarma.
   3. Dharwars are famous for petroleum.
   Which of the statements given above is/are correct?
   (a) 1 and 2
   (b) 2 only
   (c) 2 and 3
   (d) None
64. Consider the following crops?
1. Cotton
2. Groundnut
3. Rice
4. Wheat

Which of these are Kharif crops?
(a) 1 and 4
(b) 2 and 3 only
(c) 1, 2 and 3
(d) 2, 3, and 4

65. "Climate is extreme, rainfall is scanty and the people used to be nomadic herdsmen."
The above statement best describes which of the following regions?
(a) African Savannah
(b) Central Asian Steppe
(c) North American Prairie
(d) Siberian Tundra

66. Consider the following statements:
1. Inflation benefits the debtors.
2. Inflation benefits the bondholders.

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

67. Disguised unemployment generally means
(a) large number of people remain unemployed
(b) alternative employment is not available
(c) marginal productivity of labour is zero
(d) productivity of workers is low

68. Consider the following statements:
1. The Council of Ministers in the Centre shall be collectively responsible to the Parliament.
2. The Union Minister shall hold the office during the pleasure of the President of India.
3. The Prime Minister shall communicate to the President about the proposals for legislation

Which of the statements given above is/are correct?
(a) 1 only
(b) 2 and 3 only
(c) Both 1 and 2
(d) Neither 1 nor 2

69. Consider the following statements:
1. National Development Council is an organ of the Planning Commission.
2. The Economic and Social Planning is kept in the Concurrent List in the Constitution of India.
3. The Constitution of India prescribes that Panchayats should be assigned the task of preparation of plans for economic development and social justice

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

70. Consider the following statements:
1. The Chairman and the Deputy Chairman of the Rajya Sabha are not the members of that House.
2. While the nominated members of the two Houses of the Parliament have no voting right in the presidential election, they have the right to vote in the election of the Vice President.

71. With reference to National Legal Services Authority, consider the following statements:
1. Its objective is to provide free and competent legal services to the weaker sections of the society on the basis of equal opportunity.
2. It issues guidelines for the State Legal Services Authorities to implement the legal programmes and schemes throughout the country.

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

72. During a thunderstorm, the thunder in the skies is produced by the
1. meeting of cumulonimbus clouds in the sky
2. lightning that separates the nimbus clouds
3. violent upward movement of air and water particles

Select the correct answer using the codes given below.
(a) 1 only
(b) 2 and 3
(c) 1 and 3
(d) None of the above produces the thunder

73. Consider the following pairs:
Tribe:
1. Limboo (Limbu) : Sikkim
2. Karbi : Himachal Pradesh
3. Dongaria Kondh : Odisha
4. Bonda : Tamil Nadu

Which of the above pairs are correctly matched?
(a) 1 and 3 only
(b) 2 and 4 only
(c) 1, 3 and 4 only
(d) 1, 2, 3 and 4

74. Consider the following liquid assets:
1. Demand deposits with the banks
2. Time deposits with the banks
3. Savings deposits with the banks
4. Currency

The correct sequence of these assets in the decreasing order of liquidity is
(a) 1 – 4 – 3 – 2
(b) 4 – 3 – 2 – 1
(c) 2 – 3 – 1 – 4
(d) 4 – 1 – 3 – 2

75. In the context of Indian economy, 'Open Market Operations' refers to
(a) borrowing by scheduled banks from the RBI
(b) lending by commercial banks to industry and trade
(c) purchase and sale of government securities by the RBI
(d) None of the above

76. Priority Sector Lending by banks in India constitutes the lending to
(a) agriculture
(b) micro and small enterprises
(c) weaker sections
(d) All of the above

77. Which one among the following industries is the maximum consumer of water in India?
   (a) Engineering
   (b) Paper and pulp
   (c) Textiles
   (d) Thermal power

78. To obtain full benefits of demographic dividend, what should India do?
   (a) Promoting skill development
   (b) Introducing more social security schemes
   (c) Reducing infant mortality rate
   (d) Privatization of higher education

79. In the context of cultural history of India, a pose in dance and dramatics called 'Tribhanga' has been a favourite of Indian artists from ancient times till today. Which one of the following statements best describes this pose?
   (a) One leg is bent and the body is slightly but oppositely curved at waist and neck
   (b) Facial expressions, hand gestures and make-up are combined to symbolize certain epic or historic characters
   (c) Movements of body, face and hands are used to express oneself or to tell a story
   (d) A little smile, slightly curved waist and certain hand gestures are emphasized to express the feelings of love or eroticism

80. Annie Besant was
   1. responsible for starting the Home Rule Movement
   2. the founder of the Theosophical Society
   3. once the President of the Indian National Congress

Select the correct statements/statements using the codes given below:
   (a) 1 only
   (b) 2 and 3 only
   (c) 1 and 3 only
   (d) 1, 2 and 3

81. The Ilbert Bill controversy was related to the
   (a) imposition of certain restrictions to carry arms by the Indians
   (b) imposition of restrictions on newspapers and magazines published in Indian languages
   (c) removal of disqualifications imposed on the Indian magistrates with regard to the trial of the Europeans
   (d) removal of duty on imported cotton cloth

82. A rise in general level of prices may be caused by
   1. an increase in the money supply
   2. a decrease in the aggregate level of output
   3. an increase in the effective demand

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

83. Which one of the following groups of items is included in India's foreign-exchange reserves?
   (a) Foreign-currency assets, Special Drawing Rights (SDRs) and loans from foreign countries
   (b) Foreign-currency assets, gold holdings of the RBI and SDRs
   (c) Foreign-currency assets, loans from the World Bank and SDRs
   (d) Foreign-currency assets, gold holdings of the RBI and loans from World Bank

84. Which one of the following is likely to be the most inflationary in its effect?
   (a) Repayment of public debt
   (b) Borrowing from the public to finance a budget deficit
   (c) Borrowing from banks to finance a budget deficit
   (d) Creating new money to finance a budget deficit

85. Supply of money remaining the same when there is an increase in demand for money, there will be
   (a) a fall in the level of prices
   (b) an increase in the rate of interest
   (c) a decrease in the rate of interest
   (d) an increase in the level of income and employment

86. Fruits stored in a cold chamber exhibit longer storage life because
   (a) exposure to sunlight is prevented
   (b) concentration of carbon dioxide in the environment is increased
   (c) rate of respiration is decreased
   (d) there is an increase in humidity

87. Consider the following fauna of India:
   1. Gharial
   2. Leatherback turtle
   3. Swamp deer

Which of the above is/are endangered?
   (a) 1 and 2 only
   (b) 3 only
   (c) 1, 2 and 3
   (d) None

88. Ball-bearings are used in bicycles, cars, etc., because
   (a) the actual area of contact between the wheel and axle is increased
   (b) the effective area of contact between the wheel and axle is increased
   (c) the effective area of contact between the wheel and axle is reduced
   (d) None of the above statements is correct

89. Consider the following phenomena:
   1. Size of the sun at dusk
   2. Colour of the sun at dawn
   3. Moon being visible at dawn
   4. Twinkle of stars in the sky
   5. Polestar being visible in the sky

Which of the above are optical illusions?
   (a) 1, 2 and 3
   (b) 3, 4 and 5
   (c) 1, 2 and 4
   (d) 2, 3 and 5
90. Rainbow is produced when sunlight falls on drops of rain. Which of the following physical phenomena are responsible for this?
1. Dispersion
2. Refraction
3. Internal reflection
Select the correct answer using the codes given below.
(a) 1 and 2 only (b) 2 and 3 only
(c) 1 and 3 only (d) 1, 2 and 3

91. Many transplanted seedlings do not grow because
(a) the new soil does not contain favourable minerals
(b) most of the root hairs grip the new soil too hard
(c) most of the root hairs are lost during transplantation
(d) leaves get damaged during transplantation

92. Economic growth in country X will necessarily have to occur if
(a) there is technical progress in the world economy
(b) there is population growth in X
(c) there is capital formation in X
(d) the volume of trade grows in the world economy

93. Which of the following statements is/are correct?
1. Viruses lack enzymes necessary for the generation of energy.
2. Viruses can be cultured in any synthetic medium.
3. Viruses are transmitted from one organism to another by biological vectors only.
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

94. Which of the following leaf modifications occurs/occur in desert areas to inhibit water loss?
1. Hard and waxy leaves
2. Tiny leaves or no leaves
3. Thorns instead of leaves
Select the correct answer using the codes given below.
(a) 1 and 2 only (b) 2 only
(c) 1 and 3 only (d) 1, 2 and 3

95. The known forces of nature can be divided into four classes, viz., gravity, electromagnetism, weak nuclear force and strong nuclear force. With reference to them, which one of the following statements is not correct?
(a) Gravity is the strongest of the four
(b) Electromagnetism acts only on particles with an electric charge
(c) Weak nuclear force causes radioactivity
(d) Strong nuclear force holds protons and neutrons inside the nucleus of an atom

96. The efforts to detect the existence of Higgs boson particle have become frequent news in the recent past. What is/are the importance/importanties of discovering this particle?
1. It will enable us to understand as to why elementary particles have mass.
2. It will enable us in the near future to develop the technology of transferring matter from one point to another without traversing the physical space between them.
3. It will enable us to create better fuels for nuclear fission.
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

97. Mycorrhizal biotechnology has been used in rehabilitating degraded sites because mycorrhiza enables the plants to
1. resist drought and increase absorptive area
2. tolerate extremes of pH
3. resist disease infestation
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

98. Who among the following constitute the National Development Council?
1. The Prime Minister
2. The Chairman, Finance Commission
3. Ministers of the Union Cabinet
4. Chief Ministers of the States
Select the correct answer using the codes given below:
(a) 1, 2 and 3 only (b) 1, 3 and 4 only
(c) 2 and 4 only (d) 1, 2, 3, and 4

99. The national income of a country for a given period is equal to the
(a) total value of goods and services produced by the nationals
(b) sum of total consumption and investment expenditure
(c) sum of personal income of all individuals
(d) money value of final goods and services produced

100. Which of the following grants/grant direct credit assistance to rural households?
1. Regional Rural Banks
2. National Bank for Agriculture and Rural Development
3. Land Development Banks
Select the correct answer using the codes given below:
(a) 1 and 2 only (b) 2 only
(c) 1 and 3 only (d) 1, 2 and 3
Answer Key

1. (a) 2. (c) 3. (b) 4. (c) 5. (c) 6. (b) 7. (a) 8. (a) 9. (c) 10. (b)
11. (d) 12. (c) 13. (c) 14. (d) 15. (d) 16. (c) 17. (a) 18. (a) 19. (d) 20. (a)
21. (d) 22. (c) 23. (a) 24. (d) 25. (c) 26. (b) 27. (c) 28. (b) 29. (b) 30. (d)
31. (a) 32. (d) 33. (a) 34. (c) 35. (a) 36. (b) 37. (a) 38. (c) 39. (c) 40. (b)
41. (a) 42. (d) 43. (d) 44. (a) 45. (b) 46. (c) 47. (d) 48. (d) 49. (a) 50. (d)
51. (b) 52. (b) 53. (b) 54. (c) 55. (d) 56. (b) 57. (c) 58. (c) 59. (a) 60. (a)
61. (c) 62. (c) 63. (b) 64. (c) 65. (b) 66. (a) 67. (c) 68. (b) 69. (b) 70. (b)
71. (c) 72. (c) 73. (a) 74. (d) 75. (c) 76. (d) 77. (d) 78. (a) 79. (a) 80. (c)
81. (c) 82. (d) 83. (b) 84. (d) 85. (c) 86. (c) 87. (c) 88. (d) 89. (a) 90. (d)
91. (c) 92. (c) 93. (a) 94. (d) 95. (a) 96. (a) 97. (c) 98. (b) 99. (a) 100. (c)
1. (a) Article 109(2) of the Constitution

2. (c) The Governor holds office during the pleasure of the President and may resign his office. (Article 156 of the Constitution. As such no procedure is laid down in the Constitution for the removal of the Governor.

3. (b) The member of the Constituent Assembly were elected by the Provincial Legislative Assemblies as were formed under the Government of India Act, 1935.

4. (d) An amendment bill can be initiated in either House of the Parliament (Article 368(2), not necessarily in the Lok Sabha initially and only. The federal provisions wherever exist in the Constitution do need (again under Article 368) the ratification of at-least one-half of the States. Hence both the statements are incorrect.

5. (c) The Panchayats (Extension to the Scheduled Areas) Act, 1996, in its objects, does not include the creation of autonomous regions. Autonomous regions are created vide Schedule VI of the Constitution.

6. (c) Alfatoxins are the naturally occurring mycotoxins which are produced by mould Aspergillus. It is produced by many species of Aspergillus, most notable ones being Aspergillus flavus and Aspergillus parasiticus. They are toxic and among the most carcinogenic substances known. The main target organs in mammals is liver.

7. (b) Heptachlor is an insecticide.

8. (d) Gases like SO$_2$ and NO$_2$ react with water, present in the atmosphere, and form Nitric acid and Sulphuric acid. These acids fall on the earth along with rain. This is known as acid rain. Acid rain is very harmful for animals as well plants. It also has damaging effects on buildings and monuments. Lichens are very sensitive to acid rain and used as acid rain indicators.

9. (c) In nature, the sequential intake of food by different trophic levels constitute a chain which is called a food chain. In a food chain the organisms are interrelated in the form of edible and eaters and in which food substances are transferred from edible to eater. In nature there are two types of food chains – grazing food chains which start from green plants and reach to carnivorous though herbivores and detritus food chains which start from rotten or dead organism and reach to predators through detrivores.

10. (b) The Tebhaga peasant movement (1946) in Bengal, though turned violent in the later years, was one where the cultivators demanded initially two-thirds of the corps and one-third for the landlords. Later, the peasants asked for the land, and end of zamindari system.

11. (a) Article 253 empowers the Parliament to make any law for the whole or any part of the territory of India for implementing international treaties. As there is no mention of the states, it is presumed that the Parliament in this article can make law without the consent of the states.

12. (c) Excretion of urea by animals and Death of vegetation produces nitrogen compounds which are added to soil
and Cabinet Mission Plan came up in 1945 and 1946 respectively. The Simon Commission had already come more than a decade before the Quit India Movement.

48. (d) Ecotone is a transitional zone between two ecological communities, as between a forest and grass land or a river and its estuary. Habitat is the place where an organism or a population normally lives. The home range is the area where an organism confines its activity. It is the region that encompasses all the resources the animal requires to survive and reproduce. The ecological niche refers to both the place where an organism lives and the roles that an organism has in its habitat.

49. (a) The term smog has been derived from smoke and fog. Photochemical smog requires neither smoke nor fog. It arises when nitrogen oxide and hydrocarbons emitted by automobiles and other sources undergo reactions, in the presence of sunlight, in the lower atmosphere. The ozone arises from the reaction of nitrogen oxide with hydrocarbons. The other compound of photochemical smog is peroxy acetyl nitrate (PAN). The resulting smog cause a light brownish coloration of the atmosphere, reduce visibility, plant damage, irritation of eyes and respiratory distress.

50. (d) Iron is present in the muscle in the form of myoglobin. Myoglobin has the capacity to store oxygen. This oxygen is used for muscle contraction and for other immediate needs of the muscle. All these minerals are required by human body for the contraction of muscles.

51. (b) The functions of the Public Accounts Committee (PAC) are stated in (2) and (3) i.e., it scrutinized appropriation and finance accounts of the Government and examines the report of the Comptroller and Auditor General of India (India Reference Journal 2013). The PAC is a joint parliamentary committee: 15 members from the Lok Sabha and 7 members from the Rajya Sabha: total: 22 members.

53. (b) The food chain starts with green plants which are the producers. They obtain solar energy and convert it into potential energy. They are the primary source of energy for all trophic levels. Primary consumers eat these producers. They are the herbivores. The secondary consumers eat herbivores. They are the carnivores. In a food chain, the decomposers form the last trophic level and decompose dead remains of animals and plants. They include bacteria and fungi. They are present in soil and water.

59. (a) Institutionally, the members of the cabinet are members of the Parliament in any parliamentary system and the cabinet members hold office till they enjoy confidence in the Parliament, especially in the Lok Sabha. The head of the State, in parliamentary form of Government, is a constitutional head where the cabinet is headed by the Prime Minister.

61. (a) Indian coals by their very nature are high in ash content but low in sulphur content.

63. (b) In early days, Koderma was considered as the mica capital of India. Koderma district and the Lokai-Indarwa area covers the southern part of Great Mica-Belt of Jharkhand, Bihar and India. The rest of the two statements are incorrect.

64. (c) Kharif crop refers to the planting, cultivation and harvesting of any plant sown in the rainy season. These are usually sown with the beginning of the first rains in July, though the season varies by crop and state, but it is popularly considered to start in June and to end in October. Soyabean, rice, sunflower, Millets-jawar, bajara, ragi maize, mung bean, sugar cane, Arhar (pigeon pea) are the main kharif crops. The crops which are sown in winter and harvested in spring are called rabi crops. Wheat is the major rabi crop, followed by barley, mustard, seasome or peas.

68. (b) The Council of Ministers in the centre, in the parliamentary system as it exists in India, is collectively responsible to the Lok Sabha (Article 75(3)). The other two statements are true vide Article 75(2), and Article 78(a).

69. (b) It is the Planning Commission which is the organ of the National Development Council, though the Planning Commission came into existences earlier, in 1951. The economic and social planning is item No. 20 of the Concurrent List while the tasks of the Panchayats are as stated in part 3 of the question, in Article 243G (a).

70. (b) The chairman of the Rajya Sabha is the Vice-President — an ex-officio member, and as such, is not the member of the Rajya Sabha. The nominated members do not vote in the Presidential election, but vote in the election of the Vice-President.

71. (b) Both the statements relating to National Legal Services Authority (NALSA) are correct.

80. (c) Annie Besant, though became a member of the Theosophical Society in 1889, she was not the society’s founder member which was founded in 1875. The other two statements are correct.

81. (c) The Ilbert bill controversy came up in 1883 following Lord Ripon’s attempt to empower the Indian judges to try and pass verdict relating to the Europeans.

98. (b) The chairmen of the Finance Commission is not the member of the National Development Council. The Prime Minister, the Union Cabinet Ministers and the Chief Ministers of the States are the members of the National Development Council.

100. (c) The National Bank for Agriculture and Rural Development (NABARD) gives financial aid to the rural financial institutions and not to the rural households.