

CDS General Knowledge Practice Set

Section	Questions	Marks	Time	-Ve
GK	120	100	2 hrs	1/3

Q1. Environmental degradation is the deterioration of the environment through

1. Depletion of resources such as air, water and soil

2. Destruction of ecosystems

3. Progressive increase in wild life

4. Extinction of wild life

(a) 1,2,3

(b) 1,2,4

(c) 1 only

(d) 2, 4 only

Q2. Paclitaxel employed in treating breast and ovarian cancer was derived from:

(a) Polar bear

(b) Pacific Yew tree

(c) Cetaceans

(d) Pine tree

Q3. The Black Death was one of the most devastating pandemics in human history that killed around 60% of Europe's population due to:

(a) pneumonia

(b) plague

(c) smallpox

(d) tuberculosis

Q4. To which of the following animals does habitat destruction due to salt activities pose a constant threat?

(a) Indian wild ass

(b) Estuarine crocodile

(c) Dugong

(d) Indian bison

Q5. Which of the following isotopes of carbon is/are used in carbon dating?

(a) ^{12}C only

(b) ^{13}C only

(c) ^{14}C only

(d) ^{12}C and ^{14}C

Q6. Which one of the following is used in the preparation of antiseptic solution?

(a) Potassium nitrate

(b) Iodine

(c) Iodine chloride

(d) Potassium chloride

Q7. The light emitted by firefly is due to

(a) a radioactive substance

(b) chemiluminescence process

(c) a photoelectric process

(d) burning of phosphorus

Q8. Statement I: During the setting of cement, the structure has to be cooled by spraying water.

Statement II: The constituents of cement undergo hydration during setting of cement and it is an exothermic reaction.

(a) Both the statements are individually true and Statement II is the correct explanation of Statement I.

(b) Both the statements are individually true but Statement II is not the correct explanation of Statement I.

(c) Statement I is true, but Statement II is false.

(d) Statement I is false, but Statement II is true.

Q9. Match List I with List II and select the correct answer using the codes given below the lists.

List I List II (Acid) (Source)

A. Lactic acid - **1** Tamarind

B. Tartaric acid - **2** Orange

C. Oxalic acid - **3** Tomato

D. Citric acid - **4** Sour curd

Codes A B C D

(a) 2314

(b) 2134

(c) 4312

(d) 4132

Q10. Which one of the following reactions is the main cause of the energy radiation from the Sun?

(a) Fusion reaction

(b) Fission reaction

(c) Chemical reaction

(d) Diffusion reaction

Q11. Why hard water does not give lather with soap?

(a) Hard water contains calcium and magnesium ions which form precipitate with soap

(b) Hard water contains sulphate and chloride ions which form precipitate

(c) pH of hard water is high

(d) pH of hard water is less

Q12. Consider the following statements.

Statement I: Clay layers are poor aquifers.

Statement II: The inter-particle space of clay minerals is the least. Select the correct answer using the codes given below:

- (a) Both the statements are individually true and Statement II is the correct explanation of Statement I
- (b) Both the statements are individually true but Statement II is not the correct explanation of Statement I
- (c) Statement I is true but Statement II is false
- (d) Statement I is false but Statement II is true

Q13. When hard water is evaporated completely, the white solid remains in the container. It may be due to the presence of

1. Carbonates of Ca and Mg
 2. Sulphates of Ca and Mg
 3. Chlorides of Ca and Mg
- Select the correct answer using the code given below:
- (a) 1 and 2 only
 - (b) 1, 2 and 3
 - (c) 3 only
 - (d) 1 and 3 only

Q14. Enzymes in living systems

1. provide energy
2. provide immunity
3. transport oxygen
4. catalyze biological reactions

The correct statement(s) is/are

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

Q15. Fat-soluble pigments are

- (a) tannins
- (b) lignins
- (c) alkaloids
- (d) flavonoids

Q16. An isenthalpic process occurs at

- (a) changing temperature
- (b) constant pressure
- (c) constant volume
- (d) constant enthalpy

Q17. Assertion (A): In a pressure cooker food is cooked above boiling point.

Reason (R): Boiling point of water increases as the pressure increases.

(a) Both A and R are true and R is the correct explanation of A

(b) Both A and R are true, but R is not the correct explanation of A

(c) A is true, but R is false

(d) A is false, but R is true

Q18. A boy throws four stones of same shape, size and weight with equal speed at different initial angles with the horizontal line. If the angles are 15° , 30° , 45° and 60° , at which angle the stone will cover the maximum horizontally?

- (a) 15°
- (b) 30°
- (c) 45°
- (d) 60°

Q19. Mr X was advised by an architect to make outer walls of his house with hollow bricks. The correct reason is that such walls

- (a) make the building stronger
- (b) help keeping inside cooler in summer and warmer in winter
- (c) prevent seepage of moisture from outside
- (d) protect the building from lightning

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Q20. Which one among the following correctly defines a unit magnetic pole in SI units?

It is the pole which when placed in air at a distance of

- (a) 1 foot from an equal and a similar poled repels it with a force of 1 pound
- (b) 1 m from an equal and a similar pole repels it with a force of 1 N
- (c) 1 cm from an equal and a similar pole repels it with a force of 1 dyne
- (d) 1 metre from an equal and a similar pole repels it with a force of 1 N/m²

Q21. Dual Energy X-ray Absorptiometry (DEXA) is used to measure

- (a) spread of solid tumour
- (b) bone density
- (c) ulcerous growth in stomach
- (d) extent of brain haemorrhage

Q22. The position, relative size and nature of the image formed by a concave lens for an object placed at infinity are respectively

- (a) at focus, diminished and virtual
 (b) at focus, diminished and real
 (c) between focus and optical centre, diminished and virtual
 (d) between focus and optical centre, magnified and real

Q23. An object is raised to a height of 3 m from the ground. It is then allowed to fall on to a table 1 m high from ground level. In this context, which one among the following statements is correct?

- (a) Its potential energy decreases by two-thirds its original value of total energy.
 (b) Its potential energy decreases by one-third its original value of total energy.
 (c) Its kinetic energy increases by two-thirds, while potential energy increases by one-third.
 (d) Its kinetic energy increases by one-third, while potential energy decreases by one-third.

Q24. A body would weigh more at the poles than at the equator because

1. Equatorial radius is greater than polar radius
 2. The earth rotates about its axis
 3. The poles are covered with thick snow
 4. Polar radius is greater than equatorial radius
- (a) 1 and 2 are correct
 (b) 2 and 4 are correct
 (c) Only 1 is correct
 (d) 1, 2 and 3 are correct

Q25. Consider the following statements: The terminal velocity of an object falling in a viscous medium depends on

1. The coefficient of viscosity of the medium
 2. The weight of the object
 3. The size of the object
- Of these statements
 (a) Only 1 is correct
 (b) Only 1 and 2 are correct
 (c) Only 2 and 3 are correct
 (d) 1, 2 and 3 are correct

Q26. The working principle of a washing machine is:

- (a) Capillarity
 (b) Centrifugation
 (c) Decantation
 (d) Diffusion

Q27. Consider the following statements:

1. The apparent weight of a body floating in a liquid is zero.

2. The weight of the liquid displaced by the immersed part of the body equals its weight. Which of the above statements is/are true?

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

Q28. Which of the following units of land area measurement are prevalent in India?

- (1) Bigha
- (2) Kanal
- (3) Kila or keela
- (4) Katha

Which of the above answers is/are correct?

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

Q29. Who of the following constitutes a Finance Commission for a State in India?

- (a) The President of India
 (b) The Governor of the State
 (c) The Union Finance Minister
 (d) The Union Cabinet

Q30. Assertion (A) An award made by a Lok Adalat is deemed to be a decree of a Civil Court.

Reason (R) Award of Lok Adalat is final and binding on all parties, and no appeal lies against thereto before any court.

- Codes
 (a) Both A and R are true and R is the correct explanation of A
 (b) Both A and R are true, but R is not the correct explanation of A
 (c) A is true, but R is false
 (d) A is false, but R is true

Q31. Consider the following Vice-Presidents of India

1. V.V Giri
 2. M Hidayatullah
 3. B.D Jatti
 4. G.S Pathak
- Which one of the following is the correct chronology of their tenures?

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

Q32. According to the Constitution (Fifty Second Amendment Act, 1985 as amended in 2003, a legislator attracts disqualification under the 10th Schedule if

1. he voluntarily gives up the membership of the party on whose ticket he was elected.
 2. he votes or abstains from voting contrary to any direction issued by his political party.
 3. as a result of split, less than one third of the members formed a new group or party in the house.
 4. a member who has been elected as a independent member joins any political party.
- Select the correct answer using the codes given below

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

Q33. Consider the following statements

1. The total elective membership of the Lok Sabha is distributed among the States on the basis of the population and the area of the State.
2. The 84th Amendment Act of the Constitution of India lifted the freeze on the delimitation of constituencies imposed by the 42nd Amendment. Which of the statements given above is/are correct?

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

Q34. Which of the following statements is/are correct?

1. A registered voter in India can contest an election to Lok Sabha from any constituency in India.
2. As per the Representation of the People Act, 1951, if a person is convicted of any offence and sentenced to an imprisonment of 2 years or more, he will be disqualified to contest election. Select the correct answer using the codes given below

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

Q35. Which one among the following statements regarding the constitutionally guaranteed Right to Education in India is correct?

- (a) This right covers both child and adult illiteracy and therefore, universally guarantees education to all citizens of India

- (b) This right is a child right covering the age group of 6 to 14 years and becomes operational from the year 2015
 - (c) This right has been taken from the British Constitution which was the first Welfare State in the world
 - (d) This right has been given to all Indian children between the ages of 6 to 14 years under the 86th Constitutional Amendment Act
- DIRECTIONS (Q. No. 107-110):** The following questions consist of two statements. Statement I and Statement II. You are to examine these two statements carefully and select the answers to these questions using the codes given below.

Q36. The Constitution of India divided the states of India in categories A, B, C and D in the year 1950. In this context which of the following statements is correct?

- (a) The Chief Commissioner was the executive head of category A states. The Rajpramukh was the executive head of category B states. The Governor was the executive head of categories C and D states
- (b) The Rajpramukh was the executive head of category A states. The Chief Commissioner was the executive head of categories B and C states. The Governor was the executive head of the category D states
- (c) The Governor was the executive head of category A states. The Rajpramukh was the executive head of category B states. The Chief Commissioner was the executive head of categories C and D states
- (d) The Governor was the executive head of category A states. The Chief Commissioner was the executive head of category B states. The Rajpramukh was the executive head of categories C and D states

Q37. Which one among the following is a Fundamental Duties of citizens under the Constitution of India?

- (a) To provide friendly co-operation to the people of the neighbouring countries
- (b) To protect monuments of national importance
- (c) To defend the country and render national service when called upon to do so
- (d) To know more and more about the history of India

Q38. Which one among the following is not a fundamental duty of the citizen of India?

- (a) To develop scientific temper, humanism and the spirit of inquiry and reform
- (b) To safeguard public property and to abjure violence
- (c) To uphold and protect the sovereignty, unity and integrity of India
- (d) To practice family planning and to control population

Q39. Consider the following statements regarding e-courts, launched recently in India

1. They will facilitate hearing of cases via video conferencing.
 2. They will follow the same procedures that are laid out for the bench for hearing appeals in an open court. 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

Q40. Which of the following statements relating to Comptroller and Auditor General in India is/are correct?

1. He/She is not an officer of the Parliament but an officer under the President.
 2. He/She is an independent constitutional authority not directly answerable to the House. 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

Q41. Which of the following statements are correct regarding Joint Session of the Houses of the Parliament in India?

1. It is an enabling provision, empowering the President to take steps for resolving deadlock between the two Houses.
 2. It is not obligatory upon the President to summon the Houses to meet in a joint sitting.
 3. It is being notified by the President.
 4. It is frequently resorted to establish the supremacy of the Lok Sabha. Select the correct answer using the codes given below
- (a) 1 and 2
 - (b) 1, 2 and 3
 - (c) 2 and 3
 - (d) 3 and 4

Q42. Which of the following is not true of Article 32 of the Indian Constitution?

- (a) It gives the Supreme Court and the High Courts the power to issue writs for the enforcement of Fundamental Rights.
- (b) It is included in Part III of the Indian Constitution and is therefore itself a Fundamental Right.
- (c) Dr. Ambedkar called it the 'very soul of the Indian Constitution'.
- (d) An aggrieved person has no right to complain under Article 32 where a Fundamental Right has not been violated.

Q43. Which of the following committee overviews the welfare of the Schedule Castes and Scheduled Tribes:

- (a) Parliamentary Committee
- (b) Judicial Committee
- (c) Lok Sabha Committee
- (d) Rajya Sabha Committee

Q44. Which of the following article provides for the election of the Speaker and Deputy Speaker of the Lok Sabha?

- (a) Art 95
- (b) Art 85
- (c) Art 90
- (d) Art 93

Q45. Which one of the following glands in the human body stores iodine?

- (a) Parathyroid
- (b) Thyroid
- (c) Pituitary
- (d) Adrenal

Q46. Which of the following nutrients is not a structural component of the plant?

- (a) Nitrogen
- (b) Calcium
- (c) Phosphorus
- (d) Potassium

Q47. Sweating during exercise indicates operation of which one of the following processes in the human body?

- (a) Enthalpy
- (b) Phagocytosis
- (c) Homeostasis
- (d) Osmoregulation

Q48. Which one of the following is present in chlorophyll which gives a green colour to plant leaves?

- (a) Calcium
- (b) Magnesium
- (c) Iron

(d) Manganese

Q49. Which one of the following statement regarding potato is correct?

- (a) It is a root
- (b) It is a normal stem
- (c) It is a modified stem
- (d) It is a modified root

Q50. Which one of the following plants is used for green manuring in India?

- (a) Wheat
- (b) Sunnhemp
- (c) Cotton
- (d) Rice

Q51. Dead organs are generally stored in formalin. Formalin is because it acts as a disinfectant which is due to the presence of formaldehyde

- (a) aqueous ferrous sulphate
- (b) aqueous formaldehyde
- (c) aqueous formic acid
- (d) aqueous feme alum

Q52. To suspect HIV/AIDS in a young individual, which one among the following symptoms is mostly associated with?

- (a) Long standing jaundice and chronic liver disease
- (b) Severe anaemia
- (c) Chronic diarrhoea
- (d) Severe persistent headache

Q53. Which one among the following statements about blood transfusion is correct?

- Blood group B can give blood to
- (a) blood Group B and receive from Group AB
 - (b) blood Groups B and AB and receive from Group B
 - (c) blood Groups B and AB and receive from Group A
 - (d) blood Group O and receive from Group B

Q54. Deficiency of which of the following elements is responsible for weakening of bones?

- 1. Calcium
- 2. Phosphorus
- 3. Nitrogen
- 4. Carbon

Select the correct answer using the codes given below

- (a) 1 and 2
- (b) Only 1

- (c) 1, 2 and 3
- (d) Only 4

Q55. Which one among the following cattle breed produces highest amount of milk?

- (a) Brown Swiss
- (b) Holstein
- (c) Dutch belted
- (d) Blaarkop

Q56. Which of the following diseases are preventable by vaccine?

- 1. Tetanus
- 2. Polio
- 3. Leprosy
- 4. Pertusis

Select the correct answer using the code given below

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

Q57. Which one of the following Public Sector Bank's emblem figures a dog and the words 'faithful friendly, in it'?

- (a) Punjab National Bank
- (b) Syndicate Bank
- (c) Oriental Bank of Commerce
- (d) State Bank of India

Q58. Which of the following statements is/ are correct?

- 1. NIFTY is based upon 50 firms in India.
- 2. NIFTY is governed and regulated by the Reserve Bank of India.
- 3. NIFTY does not trade in mutual funds.

Select the correct answer using the codes given below

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

Q59. Which of the following factors was not a reason behind the occurrence of the Industrial Revolution in England first?

- (a) No part of the country was far from the sea
- (b) Navigable rivers made inland transport easier.
- (c) In England machines could be operated by wind or water power due to favourable climate condition
- (d) England had coal, iron and other necessary mineral resources

Q60. In India, mergers and acquisition of firms are regulated by
 (a) National Manufacturing Competitiveness Council
 (b) Competition Commission of India
 (c) Security and Exchange Board of India
 (d) Department of Industrial Policy and Promotion

Q61. A market in which there are large numbers of sellers of a particular product, but each seller sells somewhat differentiated but close products is termed as
 (a) Perfect competition
 (b) Monopoly
 (c) Monopolistic competition
 (d) Oligopoly

Q62. NABARDs primary role is:
 (a) to provide term loans to state cooperative banks
 (b) to assist state governments for share capital contribution
 (c) to act as a refinance institution
 (d) all of these

Q63. The abnormal increase in buffer stock of FCI in recent times is due to:
 (a) as dries of bumper harvest
 (b) procurement prices are above market prices
 (c) additional storage facility created by FCI
 (d) transport bottlenecks in wheat producing regions

Q64. The roadmap for the abolition of Central Sales Tax and introduction of a Goods and Services Tax (GST) indicates a time limit of:
 (a) 1 January 2012
 (b) yet to be decided
 (c) 30 May 2012
 (d) 31 December 2013

Q65. It is often argued that population growth is not merely a question of numbers but that of the age composition of population :
 (a) more numbers will inevitably mean more production
 (b) more people in the productive age group means net addition to wealth
 (c) the nature of public expenditure on services is determined by the composition of the population
 (d) none of the above

Q66. Indian poverty is said to be predominantly rural. Yet the problem of urban poverty appears to have reached unmanageable proportions. The paradox is explained by:

- I. greater visibility of urban poverty
 - II. migration of rural population to urban areas
 - III. seasonality of agricultural operations
 - IV. the cycle of drought and floods
- (a) I above
 (b) I & II
 (c) I & IV
 (d) 1 and 3

Q67. Which of the following factors was primarily responsible for the delay in implementing the recommendations of the Disinvestment Commission?
 (a) Resistance from PSU employees
 (b) Prolonged bearish sentiments in the stock market
 (c) Differences among the coalition partners in government
 (d) Delay in obtaining Parliamentary approval

Q68. Insider Trading is an offence under Indian laws. Who among the following will not, in the normal circumstances, be focused of insider trading?
 (a) A financial journalist covering a company
 (b) A director of the company
 (c) An auditor of the company
 (d) An employee of the company

Q69. In which one of the following cities, was the East India Association founded by Dadabhai Naoroji in 1866?
 (a) Paris
 (b) London
 (c) New York
 (d) Tokyo

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Q70. In which of the following years was the first Railway line between Bombay and Thane laid?
 (a) 1853
 (b) 1854
 (c) 1856
 (d) 1858

Q71. 'A Forgotten Empire', written by the renowned historian Robert Sewell is about which one of the following empires?

- (a) Kushan empire
- (b) Mauryan empire
- (c) Vijayanagar empire
- (d) Mughal empire

Q72. Which of the following statements about Annie Besant are correct?

1. She founded the Central Hindu College at Benaras.
2. She organised the Home Rule League.
3. She introduced the Theosophical Movement in India.

Select the correct answer using the codes given below

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

Q73. When Lord Mountbatten became the first Governor-General of India, who among the following became the Governor-General for Pakistan?

- (a) Lord Mountbatten
- (b) Muhammad Ali Jinnah
- (c) Liaquat Ali Khan
- (d) Shaukat Ali

Q74. Which of the following statements above Ryotwari settlement is/are correct?

1. It recognised the cultivators as the owner of land.
2. It was a temporary settlement.
3. It was introduced later than the permanent settlement.

Select the correct answer using the codes given below

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

Q75. Industrial Revolution in Europe mainly emerged due to

1. locating the production process in the countryside.
2. declining of the guilds because of non-farming production coming under a single roof (the factory).
3. growing role of merchant capitalists in the production process.

Select the correct answer using the codes given below

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

Q76. Statement I Annie Besant worked together with the Congress and the Muslim League during the Home Rule Movement. Statement II Annie Besant felt that this was necessary to get the support of the masses for the Home Rule Movement. Codes:

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

Q77. Ashokan inscriptions of Mansehra and Shahbazgadhi are written in

- (a) Prakrit language, Kharoshthi script
- (b) Prakrit language, Brahmi script
- (c) Prakrit-Aramaic language, Brahmi script
- (d) Aramaic language, Kharoshthi script

Q78. Industrial Revolution, in its early phase from C 1760 to C. 1850, was largely dependent for its success on

- (a) machine power that replaced the labour on a large scale
- (b) elaborate road network for transportation of industrial products
- (c) network of electric power stations
- (d) organisation of labour under factory system

Q79. Who among the following cultures were the first to paint their pottery?

- (a) Mesolithic
- (b) Chalcolithic
- (c) Neolithic
- (d) Iron age

Q80. The fortification of Calcutta by the British in 1756 was regarded by the Nawab of Bengal, Siraj-ud-Daulah, as

- (a) growth of large-scale British trade
- (b) an attack upon his sovereignty
- (c) insecurity of the British in India
- (d) British control over Bengal

Q81. Which of the following statements is/are not correct about Bhakti tradition in South India?

1. Earliest Bhakti Movements in India were led by Alvar and Nayanar saints.
2. Nalayira Divyaprabandham, frequently described as Tamil Veda is an anthology of compositions by the Alvars.
3. Karaikkal Ammaiyar, women Alvar saints, supported patriarchal norms.

Select the correct answer using the codes given below

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

Q82. The social ideals of Mahatma Gandhi were first put forth in

- (a) Hind Swaraj
- (b) An Authobiography–The Story of My Experiments with Truth
- (c) History of the Satyagraha in South Africa
- (d) The Bhagavad Geeta According to Gandhi

Q83. Consider the following statements about colonial economy of Vietnam (Indo-China):

1. The colonial economy in Vietnam was primarily based on rice cultivation and rubber plantations.
2. All the rubber plantations in Vietnam were owned and controlled by a small Vietnamese elite.
3. Indentured Vietnamese labour was widely used in the rubber plantations.
4. Indentured labourers worked on the basis of contracts that did not specify any rights of labourers but gave immense power to the employers. Which of the statements given above is/are correct?

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

Q84. Which of the following is/are the characteristic(s) of the Sannyasi and Fakir uprisings?

1. These uprisings refer to a series of skirmishes between the English East India Company and a group of sannyasis and fakirs.

2. One reason for the uprising was the ban on free movement of the sannyasis along pilgrimage routes.

3. In the course of the uprisings in 1773, Warren Hastings issued a proclamation banishing all sannyasis from Bengal and Bihar.

4. Are contemporaneous with the Non-Cooperation Movement.

Select the correct answer using the code given below:

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

Q85. Which one of the following statements is not correct?

- (a) All meridians run in a true North-South direction
- (b) Meridians are spaced farthest apart at the equator and converge to common points at the poles
- (c) All meridians are always parallel to one another
- (d) An indefinite number of meridians may be drawn on a globe

Q86. Match the following **List I** (Pass) **List II** (State)

- A. Zoji La Pass - 1. Sikkim
 B. Bara Lacha Pass - 2. Uttarakhand
 C. Jelep La Pass - 3. Himachal Pradesh
 D. Niti Pass - 4. Jammu and Kashmir

Codes A B C D

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

Q87. Which of the following factors is/are responsible for high concentration of jute mills in the Hugli basin? Select the correct answer using the code given below

1. Nearness to coal fields.
2. Convenient dry climate for spinning and weaving.

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

Q88. Israel has common borders with

- (a) Lebanon, Syria, Jordan and Egypt
- (b) Turkey, Syria, Jordan and Yemen
- (c) Lebanon, Syria, Turkey and Jordan

(d) Cyprus, Turkey, Jordan and Egypt

Q89. If the movement of the Earth's crust or a major climatic change makes an old stream young, it is called

- (a) consequent stream
- (b) rejuvenation
- (c) subsequent stream
- (d) aggradation

Q90. If the earth did not have an atmosphere, temperature extremes between day and night would

- (a) increase
- (b) decrease
- (c) stay the same
- (d) fluctuate rapidly

Q91. The Earth is an oblate spheroid and not a perfect sphere. This is because

1. the Earth has a rotational motion and the rotational speed increases as one goes from the poles towards the equator.

2. the equator experiences greater gravitational pull from the sun.

3. the intensity of sunlight received at the equator is greater than that at the poles.

Select the correct answer using the codes given below

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

Q92. Which one among the following statement is correct?

- (a) In summer season, the duration of day is more in Northern Hemisphere
- (b) In winter season, the duration of day is more in Northern Hemisphere
- (c) In summer season, the duration of day is less in Northern Hemisphere
- (d) In winter season, the duration of day is more in Southern Hemisphere

Q93. The rainfall distribution pattern over the Ganga basin decreases from the

- (a) West to East and North to South
- (b) East to West and North to South
- (c) West to East and South to North
- (d) East to West and South to North

Q94. Which one among the following cities never get the vertical rays of the Sun all through the year?

- (a) Chennai

- (b) Mumbai
- (c) Kolkata
- (d) Srinagar

Q95. The imaginary line on the Earth's surface that closely follows the 180° Meridian is

- (a) Prime Meridian
- (b) Equator
- (c) International Date Line
- (d) Tropic of Cancer

Q96. Why do we have a leap year every four years?

- (a) The Earth gets shifted out of orbit every four year
- (b) The revolution slows down a little once every four years
- (c) The length of a year is not an integer number of days
- (d) It is a convention

Q97. Match the following 3 **List I** **List II** (Mineral) (Producing Centre in Map)

- A. Copper
 - B. Mica
 - B. Chromite
 - D. Lignite
- 2 4 1
Codes A B C D

(a) 2 4 1 3

(b) 2 1 4 3

(c) 3 1 4 2

(d) 3 4 1 2 **DIRECTIONS** (Q. Nos. 271-273):

The following questions consist of two statements. Statement I and Statement II. You are to examine these two statements carefully and select the answers to these questions using the codes given below.

Q98. Match the following **lists 3 List I List II** (Place) (Location in Map)

- A. Kollam
 - 1.
 - B. Tuticorin
 - 2.
 - B. Ongole
 - 3.
 - D. Nellore
 - 4. 2 4 1
- Codes A B C D

(a) 2 3 4 1

(b) 2 4 3 1

(c) 1 4 3 2

(d) 1 3 4 2

Q99. 'Global Dimming' means

- (a) gradual increase of the temperature of ionosphere
 (b) gradual loss of biodiversity hot spots
 (c) gradual reduction in the amount of global direct irradiance at the Earth surface
 (d) gradual increase in the melting of ice in polar regions

Q100. Consider the following sanctuaries of India

1. Periyar
 2. Dachigam
 3. Sariska
 4. Kanha
- Which one among the following is the correct sequence of location of the above sanctuaries from South to North?

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

Q101. Biodiversity is richer in

- (a) tropical regions
 (b) polar regions
 (c) temperate regions
 (d) oceans

Q102. Which of the following methods is/are suitable for soil conservation in hilly region?

1. Terracing and contour bunding
 2. Shifting cultivation
 3. Contour ploughing
- Select the correct answer using the codes given below

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

Q103. Holding a 'Bandh' was declared illegal for the first time in India by which one of the following High Courts?

- (a) Rajasthan High Court
 (b) Gujarat High Court
 (c) Kerala High Court
 (d) Maharashtra High Court

Q104. Consider the following statements about Comprehensive Test Ban Treaty (CTBT)

1. The treaty comes into force only if and when all nuclear capable countries sign it.
 2. Iraq and India have not signed the treaty.
- Which of the statements given above is/are correct?

- (a) Only 1
 (b) Only 2
 (c) Both 1 and 2

- (d) Neither 1 nor 2

Q105. Roh Moo-hyun, the President (2003-2008) of which one of the following countries has committed suicide in May, 2009?

- (a) Japan
 (b) South Korea
 (c) Indonesia
 (d) North Korea

Q106. Consider the following statements

1. An Inconvenient Truth is a documentary film about global warming directed by Al Gore.
2. The film focuses on Al Gore and his travels in support of his efforts to educate the public about the severity of the climate crisis. Which of the statements given above is/are correct?

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

Q107. Which one of the following states has won the overall championship title in the 63rd National Aquatic Championship held in Kerala in 2009?

- (a) Kerala
 (b) Karnataka
 (c) Assam
 (d) West Bengal

Q108. Consider the following statements about lawn tennis court

1. Hard courts are faster than clay courts but not as fast as grass courts.
 2. The French Open is played on a hard court, but the US Open is played on a clay court.
 3. An approximate North/South orientation of the court is desirable during evening play.
- Which of the statements given above is/are correct?

- (a) 1 and 2
 (b) Only 3
 (c) 1 and 3
 (d) All of the above

Q109. In IP Spoofing

- (a) secret data are illegally distributed through computer networks
 (b) cyber criminals attack another computer by identifying the electronic identity of a trusted machine in order to mask his own true electronic identity

(c) data confidentiality is achieved using cryptographic and steganographic algorithms
(d) cyber terrorist, cyber fraud or cyber crimes are identified

Q110. SIMBEX is an annual joint maritime bilateral exercise conducted between

- (a) China and India
- (b) Singapore and Indonesia
- (c) India and Singapore
- (d) Malaysia and Thailand

Q111. A devastating Cloud Burst swept over Leh on August 2010. Which one of the following statements with regard to Cloud Burst is not correct? C-166 Miscellaneous
(a) Cloud Burst is a localised weather phenomenon representing highly concentrated rainfall over a small area in a short duration of time

- (b) Cloud Burst occurs due to upward movements of moisture laden air with sufficient rapidity to form cumulonimbus clouds
- (c) Cloud Burst occurs only in hilly areas
- (d) There is no satisfactory technique till now for predicting Cloud Burst

Q112. Who among the following was chosen for the Dada Saheb Phalke Award for the year 2010?

- (a) K Balachander
- (b) D Ramanaidu
- (c) VK Murthy
- (d) Adoor Gopalakrishnan

Q113. China recently objected the participation of an Indian company in its joint venture with another country for offshore oil exploration. Which one among the following is that country?

- (a) Myanmar
- (b) South Korea
- (c) Taiwan
- (d) Vietnam

Q114. Which one among the following is the fastest Indian Supercomputer recently developed by ISRO?

- (a) Aakash A-1
- (b) Saga 220
- (c) Jaguar-Cray
- (d) Tianhe-IA

Q115. Which one among the following Indian events will be upgraded an international event from February, 2013?

- (a) Toshali Craft Mela
- (b) Surajkund Craft Mela
- (c) Sindhu Darshan Festival
- (d) Pushkar Fair

Q116. Mention the odd man out.

- (a) Didier Drogba
- (b) Oliver Kahn
- (c) Lionel Messi
- (d) Cristiano Ronaldo

Q117. The Thomas Cup is associated with

- (a) Table Tennis
- (b) Lawn Tennis
- (c) Badminton
- (d) Billiards

Q118. 'Silent Spring', considered by many as one among the greatest science books of all time, is written by Rachel Carson. The book deals with

- (a) wild life preservation
- (b) protection of the environment
- (c) pollution of the water body
- (d) None of the above

Q119. 'Garuda-V', concluded recently, is a joint exercise between the Air Forces of India and

- (a) Japan
- (b) Canada
- (c) Russia
- (d) France

Q120. Consider the following statements: 1. The Nirmal Bharat Abhiyan is restructured into the Swachh Bharat Mission.

2. The Swachh Bharat Mission has two sub-Missions – Union Territories and 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

1. b 2. b 3. b 4. a 5. c 6. b 7. b 8. a 9. d 10. a 11. a 12. a 13. a 14. d 15. b 16. d 17. a 18. c 19. b 20. b 21. b 22. a 23. a 24. a 25. d 26. b 27. a 28. d 29. b 30. b 31. a 32. d 33. c 34. b 35. d 36. c 37. c 38. d 39. c 40. b 41. b 42. d 43. a 44. d 45. b 46. d 47. b 48. b 49. c 50. b 51. b 52. d 53. b 54. a 55. b 56. b 57. B 58. d 59. C 60. B 61. C 62. b 63. b 64. b 65. b 66.

b 67. b 68. a 69. b 70. a 71. c 72. a 73. b 74. d 75. a 76. a 77. d 78. d 79. b 80. b 81. b 82. c 83. a 84. c 85. c 86. c 87. b 88. a 89. b 90. a 91. a 92. a 93. a 94. d 95. c 96. c 97. c 98. b 99. c 100. c 101. a 102. a 103. c 104. b 105. b 106. c 107. b 108. c 109. c 110. c 111. c 112. a 113. d 114. b 115. b 116. b 117. c 118. b 119. d 120. a

- 1.
- 2.
- 3.
- 4.
5. The isotope of carbon ^{14}C is used in radio carbon dating.
6. Iodine is a powerful antiseptic. It is used as a tincture of iodine which is 2-3% iodine solution in alcohol water.
7. Light production in fireflies is due to a type of chemical reaction called bioluminescence. This process occurs in specialised light-emitting organs, usually on a firefly's lower abdomen. The enzyme luciferase acts on the luciferin, in the presence of magnesium ions, ATP, and oxygen to produce light.
8. During the setting of cement, the structure has to be cooled by spraying water because setting of cement is an exothermic process and involves hydration of calcium aluminates and calcium silicates.
9. Lactic acid occurs in sour curd. Tartaric acid occurs in tamarind. Oxalic acid occurs in tomato. Citric acid occurs in all citrus fruits like orange, lemon etc.
- 10.
11. The main cause of hardness of water is presence of Ca or Mg ions. When hard water containing these ions is treated with soap solution it reacts to form white crudy ppt known as scum.
12. An aquifer is an underground layer of water bearing rock. Water bearing rocks are permeable i.e., they have opening that liquids and gases can pass through. But clay layers are poor aquifers. Clay minerals are dense, impermeable material and act as an 'aquitard' i.e., a layer of material that is almost impenetrable to water. Through groundwater might more through such material it will do so very slowly.
13. The white solid remains in the container when hard water is evaporated completely is mainly due to the presence of carbonates of Ca and Mg and also due to presence of traces of sulphates of Ca and Mg.
- 14.
- 15.

16.

17. In a pressure cooker while cooking pressure increases due to which boiling point of water also increases as $P \propto T$.

18. Horizontal range $R = 2 u \sin 2\theta$ For maximum horizontal range θ should be 45°
 $R_{\max} = 2 u g [\sin 2\theta = \sin 90^\circ = 1]$

19. The hollow bricks provide thermal insulations; the air in hollow bricks, does not allow outside heat or cold in the house to go out or come in the house. So, it keeps house cool in summer and warm in winter.

20.

21. Dual Energy X-ray Absorptiometry (DEXA) is used to measure the density or strength of bones.

22. From the ray diagram, it is very clear that the image of the object placed at infinity from a concave lens is virtual diminished and at the focus of the lens. F Concave lens Rays from the object placed at infinity

23.

24.

25.

26.

27.

28.

29. According to Article 243 (I) the governor of the state shall set up the Finance Commission within the period of one year. State Finance Commissions receive grants from the Finance Commission that is set up by the central government.

30. The award of the Lok Adalat is fictionally deemed to be decrees of Court and therefore the court has all the powers in relation thereto as it has in relation to a decree passed by itself. This includes the powers to extend time in appropriate cases. The award passed by the Lok Adalat is the decision of the court itself, though, arrived at by the simpler method of conciliation instead of the process of arguments in court.

31. Correct chronological order of the Vice-Presidents of India is as follows: 1. V.V. Giri - 1967 2. G.S Pathak 1969 3. B.D Jatti-1974 4. M Hidayatullah- 1979

32. The Tenth Schedule (Anti-Defection Act) was included in the Constitution in 1985 by the Rajiv Gandhi ministry and sets the provisions for disqualification of elected members on the grounds of defection to another political party.

33. The total elective membership of the Lok Sabha is distributed among States in such a way that the ratio between the number of

seats allotted to each State and population of the State is, as far as practicable, the same for all States. The 84th Amendment to the Constitution (which was numbered as the 91st Amendment Bill before it was passed in Parliament) lifted the freeze on the delimitation of constituencies, as stipulated by the 42nd Constitution amendment of 1976, and allowed delimitation within States on the basis of the 1991 Census.

34. A registered voter in India can contest an election to Lok Sabha from any constituency in India except autonomous Districts of Assam, Lakshadweep and Sikkim. According to Section 8 of Representation of Peoples Act 1951, a person convicted of any offence and sentenced to imprisonment for not less than two years [other than any offence referred to in sub-section (a) or sub-section (b)] shall be disqualified from the date of such conviction and shall continue to be disqualified for a further period of six years since his release.

35. The 86th amendment to the Constitution approved in 2002 providing free and compulsory education to all children age 6 to 14 years has been notified. It included Article 21 (a) in the Indian constitution making education a fundamental right.

36. The constitution of 1950 distinguished between three main types of states: The Part A states were ruled by an elected governor and state legislature. The Part B states were governed by a rajpramukh. The Part C states were governed by a chief commissioner appointed by the President of India. The Part D states were administered by a lieutenant governor appointed by the central government.

37. The Forty Second Constitution Amendment Act, 1976 has incorporated ten Fundamental Duties in Article 51 (a) of the constitution of India. The 86th Constitution Amendment Act 2002 has added one more Fundamental Duty in Article 51 (a) of the constitution of India. As a result, there are now 11 Fundamental Duties of the citizen of India.

38. To practise family planning and to control population, is not a fundamental duty of the citizen of India. The Fundamental Duties of citizens were added to the Constitution by the 42nd Amendment in 1976. Originally ten in number, the Fundamental Duties were increased to eleven by the 86th Amendment in 2002, which added a duty on every parent or guardian to ensure that their child or ward

was provided opportunities for education between the ages of six and fourteen years.

39. The E-courts project was established in 2005. According to the project, all the courts including taluk courts will get computerized. As per the project in 2008, all the District courts were initialised under the project. In 2010, all the District courts were computerized. The project also includes producing witnesses through video conferencing. The judicial service centres are available in all court campuses. The Public as well as the advocates can walk in directly and ask for the case status, stage and next hearing dates.

40. The Comptroller and Auditor-General of India is appointed by the President of India. CAG is an authority that was established by the Constitution of India under article 148. Report of CAG of Union Accounts to be submitted to President who causes them to be laid before each house of parliament

41. Article 108 of the Constitution empowers the President to summon a joint session of both houses "for the purpose of deliberating and voting on the Bill". In India, if a bill has been rejected by any house of the parliament and if more than six months have elapsed, the President may summon a joint session for purpose of passing the bill. If at the joint sitting the Bill is passed with or without amendments with a majority of total number of members of the two Houses present and voting, it shall be deemed to be passed by both the Houses. It is not frequently restored to establish the supremacy of the Lok Sabha.

42. Under Article 226, a High Court can issue these writs not only for the purpose of enforcement of the fundamental rights but also for the redress of any other injury or illegality, owing to contravention of the ordinary law.

43.

44.

45. Thyroid gland in human body contains iodine. Deficiency of iodine creates goitre disease. Which is observed by the enlargement of larynx.

46. Potassium ions (K⁺) are responsible for protein synthesis, opening and closing of stomata in plants.

47. Homeostatic regulation includes sweating. It is the main process through which the body gets coolness.

48. Chlorophyll is a tetrapyrrole ring system that contains the magnesium ion. The

tetrapyrrole ring system chelates magnesium illustrating a conjugated double bond. This bond gives the light absorption feature to chlorophyll and provides it green colour.

49. It is a modified stem to store food synthesised by plants. Potato plants are herbaceous perennials that contain very high amount of carbohydrates.

50. Sunnhemp (*Crotalaria juncea*) is a plant which is utilized for green manuring in India. It is largely cultivated for green manure and its leaves are fed as high protein supplement to other poorer feeds.

51. Formalin contains 40% aqueous solution of formaldehyde. Dead organs are preserved in 10% formalin solution.

52. After 4-8 weeks of infection by HIV virus to a healthy individual, the acute phase of HIV infection begins. About 30-60% people develop symptoms like severe persistent headache with sore throat and mild fever etc.

53. Blood group B can provide blood to blood Groups B and AB and gets from Group B and Group 'O'.

54. Deficiency of calcium causes weakening of bones because bone consists of calcium and phosphate both.

55. Holstein Friesians are world's highest-production dairy animals. They are found mostly in Netherlands/ Germany.

56. Polio and pertussis are caused by virus. So, these can be controlled by vaccines.

57. Syndicate Bank. The symbol of dog implies that Bank is trustworthy and a friend. Its slogan is: Your faithful and friendly financial partner.

58. NIFTY is an Index computed from performance of top stocks from different sectors listed on NSE (National stock exchange). NIFTY consists of 50 companies from 24 different sectors. Indian Capital Markets are regulated and monitored by the Ministry of Finance, The Securities and Exchange Board of India and The Reserve Bank of India. It does not trade in mutual funds.

59. On the natural side England has in abundance three important commodities - water, iron and coal. Water in Britain's numerous hilly districts provides the power to drive mills in the early stages of industrialization; the rivers, amplified from 1761 by a developing network of canals, facilitate inland transport in an age where roads are only rough tracks; and the sea,

never far from any part of Britain, makes transport of heavy goods easy between coastal cities.

60. The Competition Act, 2002 prohibits anti-competitive agreements, abuse of dominant position by enterprises and regulates combinations (acquisition, acquiring of control and Merger and acquisition), which causes or likely to cause an appreciable adverse effect on competition within India. Competition Commission of India was established on 14 October 2003 and became fully functional in May 2009. It is a body of the Government of India responsible for enforcing the Competition Act, 2002 throughout India and to prevent activities that have an adverse effect on competition in India

61. Monopolistic competition is a form of market in which there are large numbers of sellers of a particular products but each seller sells somewhat differentiated but close products.

62.

63.

64.

65.

66.

67.

68.

69. The "Grand Old Man of India" Dadabhai Naoroji initiated establishment of East India Association at London.

70. The country's first railway, built by the Great Indian Peninsula Railway (GIPR), opened in 1853 between Bombay and Thane.

71. Robert Sewell was a civil servant of Madras presidency. He was Keeper of the Record Office of Madras. He authored 'A Forgotten Empire Vijayanagar', a contribution to the History of India.

72. Annie Besant (1847-1933) was the second President of The Theosophical Society from 1907 to 1933. She founded Central Hindu college at Banaras. Besant launched the All India Home Rule League along with Lokmanya Tilak in 1916.

73. Mohammed Ali Jinnah was Indian Muslim politician, founder and first governor-general (1947-48) of Pakistan. He was born on Dec. 25, 1876 at Karachi (now in Pakistan) and died Sept 11, 1948, at Karachi. As the first Governor-General of Pakistan, Jinnah worked to establish the new nation's government and policies, and to help settle the millions of Muslim migrants who had

emigrated from the new nation of India to Pakistan after the partition. He is revered in Pakistan as Quaidi-Azam.

74. The Ryotwari system, instituted in some parts of British India, was one of the two main systems used to collect revenues from the cultivators of agricultural land. Features of Ryotwari System **1.** Government claimed the property rights to all the land, but allotted it to the cultivators on the condition that they pay taxes. In other words, it established a direct relation between the landholder and the government. **2.** Farmers could use, sell, mortgage, bequeath, and lease the land as long as they paid their taxes. In other words Ryotwari system gave a proprietary right upon the landholders. **3.** IF they did not pay taxes, they were evicted **4.** Taxes were only fixed in a temporary settlement for a period of thirty years and then revised. **5.** Government had retained the right to enhance land revenue whenever it wanted **6.** Provided measures for revenue relief during famines but they were seldom applied in real life situation.

75. Causes of the Revolution • The end of medieval structures changed economic relationships and allowed for change. • A higher population because of less disease and lower infant mortality allows for a larger industrial workforce. • The Agricultural Revolution frees people from the soil, allowing - or driving - them into cities and manufacturing. • Proportionally large amounts of spare capital were available for investment. • Inventions and the scientific revolution allowed for new technology to increase and cheapen production. • Colonial trade networks allowed the import of materials and the export of manufactured goods. • The presence of all the required resources closed together, such as coal near iron. • Culture of hard work, risk taking and the development of ideas. • Demand for goods.

76.

77. Mansehra and Shahbazgadhi inscriptions of ashoka are written in Aramaic language, Kharoshthi script. Shahbaz Garhi is an historic site located in Mardan District in the North West Frontier Province of Pakistan. Mansehra is located in Mansehra District, KhyberPakhtunkhwa province of Pakistan.

78. Industrial Revolution in its early phase (from 1760 c to 1850 c) was largely

dependent for its success on organization of labour under factory system.

79. Chalcolithic Cultures were the first to paint their pottery.

80. When the elderly Alivardi Khan died in 1756, he was succeeded as Nawab of Bengal by his grandson, Siraj ud-Daulah. He was particularly distrustful of the British, and aimed to seize Calcutta and the large treasure he believed would be held there. From the moment he became Nawab, he began searching for a pretext to drive the British from his lands. It resulted in a battle between British East India Company and Siraj udDaulah. The British were unprepared for the attack on June 20th. Entire European population of the city fell almost immediately leaving the city in Indian hands.

81. Karaikal Ammaiyar was one of the three women amongst the sixty three Nayanmars, and was one of the greatest figures of early Tamil literature.

82. Hind Swaraj- Gandhi ji's views on Indian Home Rule My Experience with Truth- Autobiography of Gandhiji He deployed satyagraha in the Indian independence movement and also during his earlier struggles in South Africa for Indian rights and social Justice. Bhagavad Gita- Spiritual Lives of Common people.

83. Rubber plantation in Vietnam was owned and controlled by French and a small Vietnamese elite.

84. The immediate cause of the rebellion was the restrictions, imposed on the pilgrims visiting the holy places. The Sanyasis raided the English factories and collected contributions from the towns, leading to a series of conflicts between the large bands of Sanyasis and the British forces. The rebellion started 1750 onwards but took a violent turn since 1773 when Warren Hastings assumed as the Governor-General of Bengal. In 1773, he issued a proclamation banishing all sannyasis from Bengal and Bihar.

85. A meridian is an imaginary line joining the north and south poles at right angles to the equator, designated by degrees of longitude from 0° at Greenwich to 180°. The position of a point along the meridian is given by its latitude. Each meridian is perpendicular to all circles of latitude.

86. 1. Zoji La Pass- Jammu and Kashmir **2.** Bara Lacha Pass- Himachal Pradesh **3.** Jelep La Pass- Sikkim **4.** Niti pass- Uttarakhand.

- 87.** Jute Mills are highly concentrated in Hugli Basin (West Bengal) because This industry requires a lot of water which is easily available from the Hugli River. Iron and coal which are required for the installation and running of jute factories are also available from the nearby mines of Raniganj. Jute is the crop of hot and humid climate. It requires high temperature varying from 24°C to 35°C and heavy rainfall of 120 to 150 cm with 80 to 90 per cent relative humidity during the period of its growth. This type of climate is found in West Bengal.
- 88.** Israel has common borders with Lebanon, Syria, Jordan, and Egypt.
- 89.** Rejuvenation is the act of restoring to a more youthful condition.
- 90.** If a planet has no atmosphere, all of the sunlight which strikes it reaches the surface, and usually 90% or more of that is absorbed and 10% or less is reflected back into space. Thus the temperature will increase.
- 91.** It's an oblate spheroid because of inertial forces. The planet spins on its axis. This motion causes the regions closer to the equator to bulge outwards resulting in the current shape of the Earth. Earth is not perfectly spherical. The pull of gravity on an object changes as the distance of the object from the centre of the earth changes. If the Earth were a perfect sphere, then objects would weigh exactly the same any place on Earth (as long as they were at the same elevation). In reality, the weight of an object varies as it changes its position on the Earth's surface. At the equator, where the Earth's diameter is greatest, objects weigh a little less. At the Poles, where the Earth's diameter is the least, objects weigh a little more.
- 92.** During summer season (May, June, and July) the northern hemisphere is exposed to more direct sunlight because the hemisphere faces the sun.
- 93.** The rainfall distribution pattern over the Ganga basin decreases from the West to east and North to South.
- 94.** Any city north of the Tropic of Cancer will never have the sun directly overhead. Thus, Sri Nagar never gets vertical rays of the sun all through the year. Its latitude is approximately 34 degree north.
- 95.** The International Date Line is an imaginary line of longitude on the Earth's surface located at about 180 degrees east (or west) of the Greenwich Meridian.
- 96.** Number of days in a year is 365 days and 6 hours (It is not a complete day). Having years of 365 days makes the year too short. To keep up with the real length of the year maintaining an integer number of days, an extra day is added every four years.
- 97.**
- 98.** Kollam is an old seaport and city on the Laccadive Sea coast in Kerala. Tuticorin is a port city in Thoothukudi in Tamil Nadu. Ongole is a city in Prakasam district of Andhra Pradesh. Nellore is the 4th most populous city in Andhra Pradesh.
- 99.** Global dimming is defined as the decrease in the amounts of solar radiation reaching the surface of the Earth. The Global dimming has devastating effects on the earth's environment and living beings. The pollutants causing global dimming also leads to acid rain, smog and respiratory diseases in humans.
- 100.** A geostationary satellite is an earth-orbiting satellite, placed at an altitude of approximately 35,800 kilometres (22,300 miles) directly over the equator and revolves in the same direction as the earth rotates (west to east).
- 101.** Biodiversity is richer in tropical regions. Biodiversity is a measure of the health of ecosystems. Greater biodiversity implies greater health. Biodiversity is in part a function of climate. In terrestrial habitats, tropical regions are typically rich whereas Polar Regions support fewer species.
- 102.** Terracing is the mechanical practice used on slopping agricultural land to reduce the length and /or the degree of slope. Contour ploughing is the farming practice of ploughing and/or planting across a slope following its elevation contour lines. Shifting agriculture is a system of cultivation that preserves soil fertility by plot (field) rotation, as distinct from crop rotation.
- 103.** A pan India "bandh" is more of a political tool to fulfil populist agenda of certain political institutions. It was in 1997 that Kerala High Court had ruled that these types of "bandhs" are illegal. That was the first time that political parties received a blow to their populist tactics. This was challenged in the Apex court to which the Supreme Court in 1998, upholding the Kerala HC verdict, said that these "bandhs" are "illegal and unconstitutional" means of protest.
- 104.** Article XIV of the CTBT stipulates that for the treaty to enter into force the signature

and ratification by all the 44 states possessing nuclear weapons capabilities and research reactors as listed in Annex 2 is a prerequisite.

105. Roh Moo-hyun was the ninth President of the South Korea. He committed suicide by leaping from a hill behind his house on May 23, 2009.

106. 'An Inconvenient Truth' is a 2006 documentary film directed by Davis Guggenheim about former United States Vice President Al Gore's campaign to educate citizens about global warming.

107. Karnataka, who retained the overall championship title bagging 18 golds, 17 silvers and eight bronze medals, finished their journey in the six-day event with 318 points.

108. The French Open is played on clay while US Open uses hard courts. Clay courts slow down the ball and produce a high bounce in comparison to grass courts or hard courts. Grass courts are the fastest type of courts in common use. An approximate North/South orientation is desirable to avoid the effects of low sun during evening play.

109. The protocol does not provide data confidentiality. It is achieved using cryptographic and steganographic algorithms.

110. Indian Navy and Republic of Singapore Navy (RSN) conducted annual bilateral naval exercises named SIMBEX. The 21st series of SIMBEX hosted by India was conducted from 22 May to 28 May 2014.

111. The cloudburst is a localised weather phenomena representing highly concentrated rainfall over a small area lasting for few hours. This leads to flash floods/ landslides, house collapse, dislocation of traffic and human casualties on large scale. They occur most often in desert, mountainous regions and interiors of continents.

112. Dadasaheb Phalke Award is given to a film personality for his/her outstanding contribution to the growth and development of Indian Cinema. The award comprises a Swarna Kamal, a cash Prize of Rs. 10,00,000 (Rupees Ten Lakhs) and a shawl. K. Balachander was given the prize for the year of 2010. He made more than 100 films in various Indian languages through his production house, Kavithalayaa Productions which was established in 1981.

113.

114. SAGA-220 is a supercomputer built by the Indian Space Research Organisation

(ISRO). As of May 2011, it is the fastest supercomputer in the nation with a maximum theoretical speed of 220 TFlops.

115. The famous Surajkund Crafts Mela has been upgraded as an international event and known as Surajkund International Crafts Mela since February 2013. The event is held in Haryana's Faridabad district, 20 km from New Delhi. The decision to upgrade the fair as an international event was taken at a high-level meeting of the fair's governing body chaired by Union Tourism Secretary R.H. Khwaja.

116.

117. Thomas Cup is associated with Badminton.

118. The book 'Silent Spring' deals with protection of the environment.

119. The fifth edition of the Indo-French air exercise "Garuda" took place from 2nd to 13th June 2014 at Air Force Station Jodhpur.

120. NBA(Nirmal Bharat Abhiyan) has been restructured into the Swachh Bharat Mission with two sub-Missions - Swachh Bharat Mission (Gramin) and Swachh Bharat Mission (Urban).