Calcutta High Court LDA Exam Paper 2019

Preliminary Screening Test(Phase-I)

Q1. The part of the Constitution that reflects the mind and ideals of the framers is-

(a) Directive Principles of State Policy

(b) Fundamental Rights

(c) Preamble

(d) Citizenship

Q2. Who was the President of the USA during World War II?

(a) Nixon

(b) George Bush

(c) Franklin Roosevelt

(d) Sir Winston Churchill

Q3. The state of Jammu and Kashmir was accorded special statutes under ____.

(a) Article 370 of the Constitution

(b) Article 356 of the Constitution

(c) Article 356 and 370 of the Constitution

(d) None of these

Q4. What was the 'name' of the atom bomb that was dropped in Hiroshima city in 1945?

(a) Fat Man

(b) Fat Boy

(c) Little Boy

(d) Little Man

Q5. Which of the following is not a condition for becoming a citizen of India?

(a) Birth

(b) Descent

(c) Nationalisation

(d) Acquiring property

Q6. The capital of Lakshadweep is-

(a) Port Blair

(b) Silvasa

(c) Thekaddy

(d) Kavaratti

Q7. An Electric bulb filament is made up of _____.

(a) Copper

(b) Aluminium

(c) Lead

(d) Tungsten

Q8. Which of the following countries has agreed to accept payment of export of oil and petroleum products to India, in terms of rupees, instead of dollar or any other currency?

(a) Kuwait

(b) Iran

(c) UAE

(d) Libya

Q9. When did the French Renaissance take place?

(a) Between 15th and early 17th century

(b) Between 17 and early 18th century

(c) Between 13th and early 14th century

(d) None of these

Q10. Beside the permanent seat at New Delhi, Supreme Court can also meet at-

(a) Any other major city of India

(b) Any other Union Territory

(c) Any other place as decided by the Chief Justice of India in consultation with the President of India

(d) Any other place as decided by the President of India

Q11. Which of the following waves can propagate in vacuum?

(i) Radio waves

(ii) Light waves

(iii) X-Ray

(iv) Ultrasonic waves

Select the correct option using the codes given below.

(a)(i) to(iii)

(b)(i) to(iv)

(c)(i) to(iv)

(d) None of these

Q12. The smallest unit of information a computer can understand and process is known as a-

(a) Digit

(b) Byte

(c) Bit

(d) Megabyte

Q13. 'Vande Mataram' is taken from-

(a) Anandamath

(b) Durgesnandini

(c) Kapalkundala

(d) Devi Chowdhurani

Q14. When the pointer of a monitor is positioned on a _____, it is shaped like a hand.

(a) Grammatical error

(b) Hyperlink

(c) Spelling error

(d) Formatting error

Q15. From which part of the plant is potato obtained?

(a) Root

(b) Stem

(c) Flower

(d) Fruit

Q16. Choose the correct spelling.

(a) Blasphemy

(b) Blashpemi

(c) Blasphemi

(d) Blashpemmi

Q17. A citizen of India will lose his or her citizenship if he or she _____.

(i) Renounces Indian citizenship

(ii) Voluntarily acquires the citizenship of another country

(iii) Marries a citizen of another country

(iv) Criticizes the Government

Select the correct answer using the codes below:

(a) (i) to(iii)

(b) (ii) to(iv)

(c) (iii) and(iv)

(d) (i) and(ii)

Q18. Filaria is a disease caused by-

(a) Worms

(b) Virus

(c) Protozoa

(d) Bacteria

Q19. From which of the following Upanishadas were the words "Satyameva Jayate" on the state symbol taken?

(a) Mundaka Upanishada

(b) Kaushitaki Upanishada

(c) Atmobodho Upanishada

(d) None of these

Q20. The APPLE II is-

(a) A computer of fourth generation

(b) A computer network

(c) A computer language

(d) None of these

Q21. Which of the following is not the correct statement?

The Supreme Court of India-

(a) Is a watch dog of citizens' liberty

(b) Settles electoral disputes of President and Vice-President of India

(c) Interprets the Constitution

(d) Protects the Directive Principles of State Policy of the Constitution

Q22. The states that have common border with China are-

(i) Jammu and Kashmir

(ii) Assam

(iii) Arunachal Pradesh

(iv) Himachal Pradesh

Select the correct answer using the codes below.

(a) (i),(iii) and(iv)

(b) (i),(ii) and(ii)

(c) (i) and(iii)

(d) (i) to(iv)

Q23. Computers use the _____ number system to store data and perform calculation.

(a) Binary

(b) Octal

(c) Decimal

(d) All of these

Q24. Match the following.

Vedas

P.	Rigveda	(i)	Hymns and Prayers
Q.	Yajurveda	(ii)	Hymns and Rituals
R.	Samaveda	(iii)	Musical Hymns
S.	Atharvaveda	(iv)	Charms and spells

Select the correct options from the following codes.

Codes:

(a) P -(iv), Q -(ii), R -(i), S -(iii)

(b) P -(i), Q -(ii), R -(iii), S -(iv)

(c) P -(iv), Q -(i), R -(ii), S -(iii)

(d) P -(ii), Q -(iii), R -(i), S -(iv)

Q25. "Constitution Day' or 'Sanvidhan Divas' is celebrated on-

(a) 26th November

(b) 23rd November

(c) 20th November

(d) 26th January

Q26. Which of the following is the poorest conductor of heat in comparison to the others?

(a) Copper

(b) Tungsten

(c) Lead

(d) Mercury

Q27. Glass is actually-

(a) A crystalline solid

(b) An ionic solid

(c) An elastic solid

(d) None of these

Q28. One Terabyte(1TB) is equal to-

(a) 1024 GB

(b) 1000 GB

(c) 10000 GB

(d) 1028 GB

Q29. RAM is an example of which of the following?

(a) Volatile memory

(b) Cache memory

(c) Virtual memory

(d) None of these

Directions (Q.No. 30-32): From the given alternatives, choose the one that has the nearest meaning to the underlined word in the sentence.

Q30. Hearing the news, the workers were in a state of <u>euphoria</u>.

(a) Pleasant excitement

(b) Intense indignation

(c) Utter depression

(d) Great disorder

Q31. Being the member of the organisation, he has certain <u>rights</u>.

(a) Virtues

(b) Facilities

(c) Gain

(d) Privileges

Q32. We did not expect such a <u>judicious</u> remark from him.

(a) Sagacious

(b) Legal

(c) Rational

(d) Correct

Q33. How many Presidents of India so far were elected unopposed?

(a) One

(b) Two

(c) Three

(d) Four

Q34. Match the following.

Cup / Trophy		Sports	
P.	Deodhar Trophy	**(i)**	Volleyball
Q.	Durand Cup	**(ii)**	Football
R.	Davis Cup	**(iii)**	Cricket
		(iv)	Tennis

Select the correct option from the following codes.

Codes:

(a) P -(iii), Q -(ii), R -(iv)

(b) P -(iii), Q -(i), R -(iv)

(c) P -(ii), Q -(iii), R -(i)

(d) P -(i), Q -(ii), R -(iv)

Q35. Keibul Lamjao National Park is situated at ___.

(a) Nagaland

(b) Manipur

(c) Meghalaya

(d) Mizoram

Q36. At present, the total number of members in Lok Sabha is _____.

(a) 520

(b) 545

(c) 543

(d) 540

Q37. Which of the following combinations are there in Grand Slam in Tennis?

(a) Wimbledon, French Open, Italian Open and Australian Open

(b) Wimbledon, French Open, Dubai Open and Australian Open

(c) Wimbledon, US Open, French Open and Italian Open

(d) Wimbledon, US Open, French Open and Australian Open

Q38. National Legal Service Day is observed on _____.

(a) November 9

(b) November 19

(c) January 9

(d) March 10

Q39. Match the following.

Wild life park/Sanctuary		Animal protected	
P.	Kaziranga	**(i)**	Elephant
Q.	Ranthambore	**(ii)**	Lion
R.	Gir	**(iii)**	Rhinoceros
S.	Periyar	**(iv)**	Tiger
		(v)	Deer

Select the correct option from the following codes.

Codes:

(a) P -(iii), Q -(iv), R -(ii), S -(i)

(b) P –(iii), Q –(i), R –(ii), S –(iv)

(c) P -(i), Q -(ii), R -(iii), S -(iv)

(d) P -(iv), Q -(iii), R -(ii), S -(v)

Q40. Which of the following Indian state does not share in Indo- Bangladesh border?

(a) Assam

(b) Mizoram

(c) Tripura

(d) Manipur

Q41. Where _____ is bliss, it is ____ to be wise.

(a) romance, boring

(b) ignorance, folly

(c) knowledge, better

(d) bachelorhood, single

Q42. Who among the following bowlers have taken more than 500 wickets in Test Cricket?

(i) Wasim Akram

(ii) Richard Hadlee

(iii) Glenn McGrath

(iv) Courtney Walsh

Select the correct answer using the codes given below.

(a)(i) and(ii) only

(b)(i) and(ii) only

(c)(iii) and(iv) only

(d)(i),(ii),(iii) and(iv)

Q43. Which of the following terms is used in the game of Hockey?

(a) Love

(b) Spin

(c) Penalty stroke

(d) No-ball

Q44. The thief _____ yesterday and was put in prison.

(a) is caught

(b) was caught

(c) has been caught

(d) is being caught

Q45. Who has taken the maximum wickets in one-day International cricket?

(a) Shane Warne

(b) Muttiah Muralitharan

(c) Wasim Akram

(d) Kapil Dev

Q46. One who runs away from justice or the law is called a/an-

(a) Fugitive

(b) Alien

(c) Egoist

(d) Martyr

Q47. All these years I _____ him to keep him away from such people, but he did not listen to me.

(a) warned

(b) have been warning

(c) had warned

(d) had been warning

Q48. Myanmar does not share its international boundary with _____.

(a) Laos

(b) Thailand

(c) Vietnam

(d) India

Q49. The Committee has to submit its report _____ two months.

(a) during

(b) within

(c) until

(d) till

Q50. Who has won the Women's Singles French Open Tennis 2018?

(a) Simona Hulep

(b) Simona Halep

(c) Simona Help

(d) Simona Halden

Directions (Q.No. 51-54) Find out which part of the following sentence has an error. If there is no error the answer will be - "No error".

Q51. One of the most(a)/widely spread(b)/bad habit is the use of tobacco(c)/ No error(d)

(a) One of the most

(b) widely spread

(c) bad habit is the use of tobacco

(d) No error

Q52. All the furnitures have been(a)/sent to the new house(b)/located in the village(c)/

No error(d)

(a) All the furnitures have been

(b) sent to the new house

(c) located in the village

(d) No error

Q53. This article(a)/is not available in(b)/any of the shops(c)/No error(d)

(a) This article

(b) is not available in

(c) any of the shops

(d) No error

Q54.. They left their(a)/ luggages at the(b)/ railway station(c)/ No error(d)

(a) They left their

(b) luggages at the

(c) railway station

(d) No error

Q55. _____ Oranges are grown in Nagpur.

(a) An

(b) A

(c) No article is required

(d) The

Q56. Consider the following statements.

(i) The series of International Paper Size is based on A0 size whose area is 0.5m²(approximately);

(ii) The area of A4 size paper is 1/4" to that of the area of A0 size paper.

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

(a)(i) only

(b)(ii) only

(c) Both(i) and(ii)

(d) Neither(i) nor(ii)

Q57. If A + B means A is the mother of B;

A - B means A is the brother of B;

A % B means A is the father of B;

A × B means A is the sister of B;

Which of the following shows that P is the maternal uncle of Q?

(a) Q – N + M × P

(b) P + S × N – Q

(c) P – M + N × Q

(d) Q – S % P

Q58. A puisne judge of a High Court is _____

(a) The Chief Justice of that High Court

(b) A judge other than Chief Justice of that High Court

(c) All judges including the Chief Justice of that High Court

(d) All of these

Q59. A persistent fall in the general price level of goods and services is known as _____.

(a) Deflation

(b) Disinflation

(c) Stagflation

(d) Depression

Q60. Lion : Flesh :: Cow : ___

(a) Grass

(b) Beef

(c) Animal

(d) Milk

Q61. Prime Minister Narendra Modi renamed Ross Island in Andaman & Nicobar Island as-

(a) Sardar Vallabhbai Patel Dweep

(b) Shaheed Dweep

(c) Swaraj Dweep

(d) Netaji Subhas Chandra Bose Dweep

Q62. The sum of the digits of a two-digit number is 10. On interchanging the digits, the number obtained is 54 less than the original number. What is the original number?

(a) 54

(b) 56

(c) 82

(d) 86

Q63. The fact that planets move around the Sun not in circles but ellipse, was demonstrated by ___.

(a) Galileo

(b) Aryabhatta

(c) Johannes Kepler

(d) Copernicus

Q64. In a certain language "PIC VIC NIC" means "winter is cold"; "TO NIC RE" means "summer is hot"; "RE THO PA" means "nights are hot".

Which of the following is the code for 'summer'?

(a) TO

(b) NIC

(c) PIC

(d) VIC

Q65. Find the missing number in the series.

0, 6, 24, 60, _____, 210.

(a) 122

(b) 290

(c) 120

(d) 240

Q66. The average of the two numbers is xy. If one number is x, then the other number is

(a) (2xy – x)

(b) x(y – 1)

(c) y/2

(d) y

Q67. The length of minute hand of a wall clock is 7 cm. The area swept by it in 30 minutes is-

(a) 77 cm²

(b) 147 cm²

(c) 140 cm²

(d) Insufficient data

Q68. The simple interest on a sum for 5 years is $\frac{2}{5}$ of the sum. The rate per cent per annum is _____.

(a) 10%

(b) 8%

(c) 6%

(d) 12.50%

Q69. Anil and Sunil are brothers who have Rs. 1210 with them. If $\frac{4}{15}$ of Anil's amount is equal to $\frac{2}{5}$ of Sunil's amount, then how much amount does Sunil have?

(a) Rs. 440

(b) Rs. 350

(c) Rs. 1000

(d) None of these

Q70. If $\frac{P}{Q} = 7$ then $\frac{(P + Q)}{(P - Q)} = ?$

(a) $\frac{7}{8}$

(b) $\frac{1}{3}$

(c) $\frac{2}{3}$

(d) $\frac{4}{3}$

Q71. Which Constitutional Amendment Act has reduced the voting age in India from 21 years to 18 years?

(a) 42nd Amendment Act, 1976

(b) 61th Amendment Act, 1988

(c) 62nd Amendment Act, 1989

(d) 51st Amendment Act, 1984

Q72. The Berne Convention was a pioneer convention in the field of ___.

(a) Protection of Wild Life

(b) Protection of Victims of Wars

(c) Protection of Intellectual Property Rights

(d) Protection of Human Rights

Q73. If PRLN : XZTV :: JLFH : ___.

(a) NPRT

(b) RTNP

(c) NRPT

(d) Wrong formulation

Q74. If Sonali is x years old now, then 5 times her age 3 years ago is _____.

(a) 3(x - 5)

(b) 5(x - 3)

(c) 5x - 3

(d) None of these

Q75. A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to Charity and A's share is Rs. 8,550, then total profit is-

(a) Rs. 15,760

(b) Rs. 15,000

(c) Rs. 14,250

(d) Rs. 15,735

Q76. The sum of the two numbers is 29 and the difference of their squares is 145. The difference between the numbers is-

(a) 13

(b) 11

(c) 5

(d) 15

Q77. Zahir is as much younger to Jacob as he is older to Ramesh. If the total of the ages of Jacob and Ramesh is 48 years, then how old is Zahir?

(a) 26 years
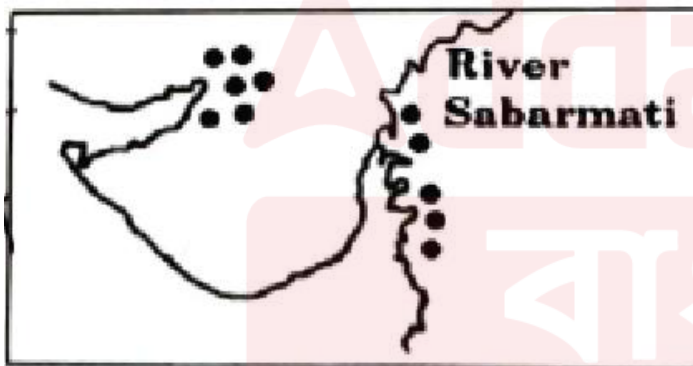
(b) 24 years

(c) 48 years

(d) Information insufficient

Q78. Find the least number which when divided by 6, 7, 8, 9 and 12 leaves the same remainder 2 in each case.

(a) 507

(b) 518

(c) 504

(d) None of these

Q79. Consider the map given below.

(A portion of India)

The industries are clustered at the point shown in the map.

(a) Sugar

(b) Jute

(c) Cotton

(d) Iron and Steel

Q80. The school with the largest student strength in world is _____.

(a) City Montessori School, Lucknow, UP, India

(b) Eton, England

(c) South Point School, Kolkata, WB, India

(d) People's City School, Beijing, China

Q81. The ratio of the areas of two triangles is 4 : 3 and the ratio of their heights is 3 : 4. The ratio of their bases is

(a) 16 : 3

(b) 4 : 6

(c) 10 : 4

(d) None of these

Q82. Shami whose bowling average is 12.4, takes 5 wickets for 26 runs and thereby decreases his average by 0.4. Find the number of wickets taken by him before his last match.

(a) 25

(b) 85

(c) 80

(d) 75

Q83. The full form of VPN in a computer is _____.

(a) Virtual Primary Network

(b) Virtual Private Network

(c) Virtual Processing Network

(d) None of these

Q84. The diagonal of a cube is $4\sqrt{3}$ cm. Find the surface area of the cube.

(a) 90 cm²

(b) 96 cm²

(c) 96 cm³

(d) 64 cm³

Q85. By selling a bag for Rs. 350 instead of Rs. 400, loss per cent increases by 5%. The cost price of the bag is-

(a) Rs. 1000

(b) Rs. 1050

(c) Rs. 1500

(d) Insufficient information

Q86. Find the answer for the given equation.

(4.8 × 1.8 ÷ 3.6 + 5.4 of 1/9 - 1/5)

(a) 0.2

(b) 2.8

(c) 0.6

(d) 3.6

Q87. The radius of a circle is increased by 1%. The percentage increase in area of the circle is-

(a) 2.01%

(b) 1%

(c) 1.1%

(d) 2%

Q88. Match the following.

List-I		List-II	
P.	Assassination of Mahatma Gandhi	**(i)**	1948
Q.	Death of Pandit Nehru	**(ii)**	1964
R.	Death of Lal Bahadur Shastri	**(iii)**	1966
S.	Death of Indira Gandhi	**(iv)**	1984

Select the correct option using the codes.

Codes:

(a) P -(i), Q -(ii), R -(iii), S -(iv)

(b) P -(i), Q -(iii), R -(ii), S -(iv)

(c) P -(i), Q -(iv), R -(ii), S -(iii)

(d) None of these

Q89. By selling 100 pens, a shopkeeper gains the selling price of 20 pens. Find his gain per cent?

(a) 25%

(b) 8%

(c) 80%

(d) 20%

Q90. When the time is 8:30, the angle between the minute hand and the hour hand of a clock is-

(a) 75°

(b) 105°

(c) 180°

(d) 255°

Q91. Kamal gets 3 marks for each correctly done question but loses 2 marks for each wrongly done question. He attempts 30 questions and gets 40 marks. How many questions he has attempted correctly?

(a) 25

(b) 20

(c) 26

(d) 30

Q92. Vinod is the brother of Bhaskar. Manohari is the sister of Vinod. Biswal is the brother of Preetam and Preetam is the daughter of Bhaskar. Who is the uncle of Biswal?

(a) Bhaskar

(b) Manohari

(c) Vinod

(d) Insufficient data

Q93. A man sold an article for Rs. 161, gaining 1/6th of his outlay. The cost price of the article is-

(a) Rs. 160

(b) Rs. 135

(c) Rs. 138

(d) Rs. 150

Q94. Each side of a square park is 100 metre. At each corner of the park there are flower beds in the form of quadrants of radius 14 metres, as shown in the following diagram. The area of the remaining part of the park is _____.
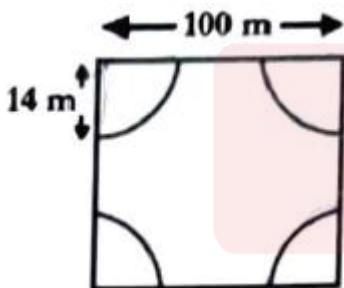
(a) 9384 m²

(b) 9290 m²

(c) 9150 m²

(d) None of these

Q95. How many types of Prerogative Writs are there in the Indian Constitution?

(a) Three

(b) Four

(c) Six

(d) Five

Q96. A is the brother of R. C is the mother of B. M is the sister of C. How M is related to B?

(a) Nephew

(b) Niece

(c) Aunt

(d) Cannot be determined

Q97. I walk a certain distance and ride back taking a total time of 37 minutes. I could walk both ways in 55 minutes. How long would it take me to ride both the ways?

(a) 29 minutes

(b) 19 minutes

(c) 20 minutes

(d) None of these

Q98. Taj Mahal is built of _____ marble.

(a) No article is required

(b) the

(c) a

(d) an

Q99. If 11 : 17:: 19 : _____

(a) 27

(b) 29

(c) 21

(d) Wrong formulation

Q100. When 20% of a number is added to another number, the second number increases by 50%. What is the ratio between the first and the second number?

(a) 3 : 2

(b) 5 : 2

(c) Cannot be determined for insufficient data

(d) 2 : 3

SOLUTION

S1.Ans.(c)

Sol. The part of the Constitution that reflects the mind and ideals of the framers is Preamble. This is the Preamble or Introduction to the Constitution of India. It was adopted by the Constituent Assembly on 26th November 1949 and came into force on 26th January 1950. This date is celebrated as the Republic Day of India.

S2.Ans.(c)

Sol. Franklin Roosevelt was the President of the USA during World War II. He is an American politician. He served as the 32nd President of the United States from 1933 until his death in 1945.

S3.Ans.(a)

Sol. The state of Jammu and Kashmir was accorded special statutes under Article 370 of the Constitution. Jammu and Kashmir was administered by India as a state from 17th November 1952 to 31st October 2019.

S4.Ans.(c)

Sol. On August 6, 1945, the United States dropped an atomic bomb, codenamed "Little Boy," on Hiroshima, Japan. It was the first nuclear weapon used in warfare and exploded with a force equivalent to 15,000 tons of TNT. Fat Man was the codename for the second atomic bomb, dropped on Nagasaki, Japan, on August 9, 1945.

S5.Ans.(d)

Sol. Acquiring property is not a condition for becoming a citizen of India. Indian citizenship act was passed in 1955. It prescribes five ways of acquiring citizenship in five ways:

I. By birth

II. By Naturalisation

III. By incorporation of the territory

IV. By Descent

V. By Registration

S6.Ans.(d)

Sol. The capital of Lakshadweep is Kavaratti. Kavaratti is a union territory. It is located in the south near Kerala. It is well known for its pristine white sand beaches and tranquil lagoons. As a result it has become a popular tourist destination.

S7.Ans.(d)

Sol. An Electric bulb filament is made up of tungsten. It is also known as wolfram. Tungsten is a hard, rare metal. Its main ores are wolframite and scheelite.

S8.Ans.(b)

Sol. Iran has agreed to accept payment in rupees instead of dollars or any other currency for exporting oil and petroleum products to India. India mainly imports oil from Iraq, Iran, Saudi Arabia and Nigeria.

S9.Ans.(a)

Sol. The French Renaissance, also known as the Renaissance française, occurred from the late 15th century to the early 17th century, roughly spanning the period from 1480 to 1620.

S10.Ans.(c)

Sol. Beside the permanent seat at New Delhi, Supreme Court can also meet at any other place as decided by the Chief Justice of India in consultation with the President of India. This provision is mentioned in Article 130 of the Constitution of India.

S11.Ans.(a)

Sol. Radio waves, Light waves and X-Ray can propagate in vacuum. These are electromagnetic waves. They don't need media to propagate. They can travel through vacuum.

Radio waves: Electromagnetic waves with frequencies between 3 kHz and 300 GHz.

Light waves: Electromagnetic waves with frequencies between 400 THz and 800 THz (visible spectrum).

X-rays: Electromagnetic waves with frequencies between 30 petahertz and 30 exahertz.

Ultrasonic waves: Mechanical waves with frequencies above 20 kHz, requiring a medium to propagate.

S12.Ans.(c)

Sol. The smallest unit of information a computer can understand and process is known as a Bit. A group of 4 bits is called a nibble and a group of 8 bits is called a byte. It is a fundamental unit of digital information that can have only two values: 0(zero) and 1(one)

S13.Ans.(a)

Sol. The song 'Vande Mataram' is taken from the novel Anandamath by writer Bankimchandra Chattopadhyay. This novel was written in 1882. This music played an important role in India's freedom movement.

S14.Ans.(b)

Sol. When the pointer of a monitor is positioned on a hyperlink, it is shaped like a hand. Hyperlink is a digital reference to data that the user can follow or be guided to by clicking or tapping.

S15.Ans.(b)

Sol. A potato is a modified stem of a plant. To store food, the stem of the plant is modified to form a spherical shape, known as potato.

S16.Ans.(a)

Sol. The correct spelling is (a) Blasphemy.

S17.Ans.(d)

Sol. According to the Citizenship Act, 1955, a citizen of India may lose their citizenship in two circumstances:

(i) Renounces Indian citizenship: If an Indian citizen voluntarily gives up their citizenship, they will lose their Indian citizenship.

(ii) Voluntarily acquires the citizenship of another country: If an Indian citizen voluntarily acquires the citizenship of another country, they will lose their Indian citizenship.

So, the correct answer is (d) (i) and(ii).

S18.Ans.(a)

Sol. Filaria, also known as elephantiasis, is a tropical disease caused by a parasitic worm called a filarial worm. These worms are transmitted to humans through the bite of an infected mosquito.

S19.Ans.(a)

Sol. "Satyameva Jayate" is a Sanskrit phrase that means "Truth alone triumphs." It is taken from the Mundaka Upanishad, which is a Hindu scripture that is part of the Atharva Veda.

S20.Ans.(a)

Sol. The Apple II is an example of a fourth generation computer. It was released by Apple Computer in 1977. It was the first successful mass-produced microcomputer.

S21.Ans.(d)

Sol. 'The Supreme Court of India upholds the Directive Principles of State Policy of the Constitution' is not true.

The function of The Supreme Court of India is to:

I. The SC gives the final verdict against an appeal from the other subsidiary courts i.e., High courts.

II. It acts as an institution where issues from the different governmental bodies, central government, and the state government matters are resolved.

III. As per Article 141 of the Constitution, laws passed by the SC, apply to all courts within the Indian Territory.

IV. In some matters, the Supreme Court also acts on its own and can pass suo moto.

S22.Ans.(a)

Sol. The States which have common borders with China are Jammu and Kashmir, Sikkim, Arunachal Pradesh and Himachal Pradesh.

So correct answer is (a).

S23.Ans.(a)

Sol. Computers use the Binary number system to store data and perform calculation. Its base is 2. It uses two symbols namely "0"(zero) and "1"(one). The modern binary number system was studied in Europe in the 16th and 17th centuries by Thomas Harriot, Juan Caramuel y Lobkowitz, and Gottfried Leibniz.

S24.Ans.(b)

Sol. The Rigveda is an ancient Indian collection of Vedic Sanskrit hymns. It is related with Hymns and Prayers.

The Yajurveda is the Veda primarily of prose mantras for worship rituals. It is related with Hymns and Rituals.

The Samaveda, is the Veda of melodies and chants. It is an ancient Vedic Sanskrit text, and is one of the sacred scriptures in Hinduism. It is related with Musical Hymns.

The Atharvaveda or Atharva Veda or Atharvana Veda is the "knowledge storehouse of atharvāṇas, the procedures for everyday life". It is related with Charms and spells.

S25.Ans.(a)

Sol. "Constitution Day' or 'Sanvidhan Divas' is celebrated on 26th November. On 26th November 1949, the Constituent Assembly of India adopted the Constitution of India, which came into effect from 26th January 1950.

S26.Ans.(c)

Sol. Lead is the poorest conductor of heat in comparison to the others. Lead is a chemical element; it has symbol Pb and atomic number 82. It has a relatively low melting point.

A conductor, or electrical conductor, is a substance or material that allows electricity to flow through it.

S27.Ans.(a)

Sol. Glass is actually a crystalline solid. It is a mixture of silica, lime and soda ash. Among these, silica is the main component. Quartz, calcite, sugar, mica, diamonds, snowflakes, rock, calcium fluoride, silicon dioxide, and alum are examples of crystalline solids.

S28.Ans.(a)

Sol. One Terabyte(1TB) is equal to 1024GB. A terabyte is bigger than a gigabyte. 1 gigabyte is equal to 1024 megabytes.

S29.Ans.(a)

Sol. RAM is an example of Volatile memory. Volatile memory is a type of memory that maintains its data only while the device is powered. If the power is interrupted for any reason, the data is lost. Full form of RAM is Random access memory. The two main types of volatile random-access semiconductor memory are static random-access memory (SRAM) and dynamic random-access memory (DRAM).

S30.Ans.(a)

Sol. Euphoria is the experience(or affect) of pleasure or excitement and intense feelings of well-being and happiness. 'Pleasant excitement' is closest in meaning to the required one, among the given options. Thus, it is the correct answer.

S31.Ans.(d)

Sol. Privileges : a special right, advantage, or immunity granted or available only to a particular person or group.

So correct answer is (d) Privileges.

S32.Ans.(a)

Sol. Sagacious : having or showing keen mental discernment and good judgement; wise or shrewd.

So correct answer is (a) Sagacious.

S33.Ans.(b)

Sol. Two Presidents of India so far were elected unopposed. Dr. Rajendra Prasad in 1952 and Neelam Sanjeev Reddy in 1977 were both elected unopposed.

S34.Ans.(a)

Sol. Deodhar Trophy is related with Cricket. Cricket trophies name are Ashes Series, Asia Cup, Benson and Hedges, C. K. Naidu Trophy, Coach Behar Trophy, Deodhar Trophy, Ghulam Ahmed Trophy, Irani Trophy, Moinuddowla Gold Cup, MRF World Cup, Nehru Cup(Jawaharlal Nehru Cup), Reliance Cup, Rohinton Baria Trophy, Rothman's Trophy, Sahara Cup, Sheesh Mahal Trophy, Vijay Merchant Trophy, Vizzy Trophy, Wills Trophy etc.

Football trophies name are Durand Cup, FIFA World Cup, FA Cup, Euro Cup, UEFA Champions League, Santosh Trophy, EFL Cup etc.

Davis Cup is related with Tennis.

S35.Ans.(b)

Sol. Keibull Lamjao National Park is situated at Manipur. It is the world's only floating national park and an integral part of Loktak Lake. It is currently under the provisional list of UNESCO World Heritage Sites.

S36.Ans.(c)

Sol. The total number of members in Lok Sabha is 543. The maximum number of seats in the Lok Sabha is 552, as per the Constitution of India.

S37.Ans.(d)

Sol. The four Grand Slam tournaments are the Australian Open in January, the French Open from late May to early June, Wimbledon from late June to early July, and the US Open from late August to early September. Each tournament is played over two weeks.

S38.Ans.(a)

Sol. National Legal Service Day is observed on November 9. It was started on 9th November 1995. The day is observed to make people aware of various provisions and rights of litigants under the Legal Services Authority Act.

S39.Ans.(a)

Sol. Kaziranga National Park is a protected area in the northeastern Indian state of Assam. It was known for the Great Indian one-horned rhinoceros.

Ranthambore National Park is a large wildlife reserve near the town of Sawai Madhopur in Rajasthan, northern India. Popular wildlife in Ranthambore includes tiger, leopard, striped hyena, sambar deer, chital, nilgai etc.

Gir National Park is the only place in the world outside Africa where a lion can be seen in its natural habitat. Gir National Park is located in the state of Gujarat.

Periyar National Park is also known as Periyar Tiger Reserve. It is located in the hilly Western Ghats of Kerala, South India. It is famous for its wildlife and elephants, tigers, leopards, sambar deer, barking deer, wild boar etc. can be seen here.

S40.Ans.(d)

Sol. Manipur does not share in Indo- Bangladesh border. Bangladesh shares its borders with Assam, Tripura, Mizoram, Meghalaya and West Bengal.

S41.Ans.(b)

Sol. Where ignorance is bliss, it is folly to be wise.

S42.Ans.(c)

Sol. Glenn McGrath and Courtney Walsh have taken more than 500 wickets in Test cricket.

Courtney Walsh is a Jamaican former cricketer. He represented West Indies from 1984 to 2001.

Glenn McGrath is an Australian former cricketer. He represented Australia for 14 years.

S43.Ans.(c)

Sol. Penalty stroke is used in the game of Hockey. A penalty stroke is a type of penalty shot awarded to the attacking team when a defending player commits a deliberate foul to prevent a goal.

S44.Ans.(c)

Sol. The thief has been caught yesterday and was put in prison.

S45.Ans.(b)

Sol. Muttiah Muralitharan has taken the maximum wickets in one-day International cricket. He is a former Sri Lankan cricketer. He has taken over 530 One Day International (ODI) wickets.

S46.Ans.(a)

Sol. One who runs away from justice or the law is called a/an Fugitive.

A fugitive is a person who runs away or flees to avoid arrest, prosecution, or punishment for a crime or wrongdoing.

S47.Ans.(d)

Sol. All these years I had been warning him to keep him away from such people, but he did not listen to me.

S48.Ans.(c)

Sol. Myanmar does not share its international boundary with Vietnam. Myanmar is also known as Burma. This country shares its borders with countries like Laos, Thailand, India, Bangladesh and China.

S49.Ans.(b)

Sol. The Committee has to submit its report <u>within</u> two months.

S50.Ans.(b)

Sol. Simona Halep has won the Women's Singles French Open Tennis 2018. She is a Romanian professional tennis player. She won two Grand Slam singles titles at the 2018 French Open and 2019 Wimbledon Championships.

S51.Ans.(b)

Sol. One of the most wide spread bad habits is the use of tobacco.

Hence, the correct answer is option (b).

S52.Ans.(a)

Sol. All the furniture has been sent to the new house located in a village.

Hence, the correct answer is option (a).

S53.Ans.(c)

Sol. This article is not available in any of the shop.

Hence, the correct answer is option (c).

S54.Ans.(b)

Sol. They left their luggage at the railway station.

Hence, the correct answer is option (b).

S55.Ans.(c)

Sol. Oranges are grown in Nagpur. It is a general statement about the cultivation of oranges in Nagpur, and no specific oranges are being referred to. Therefore, no article is used.

S56.Ans.(c)

Sol.

(i) The series of International Paper Size is based on A0 size whose area is $0.5m^2$(approximately);

(ii) The area of A4 size paper is 1/4" to that of the area of A0 size paper.

All statements are true.

S57.Ans.(c)

Sol.

P - M ➜ P is the brother of M

M + N ➜ M is the mother of N

N × Q ➜ N is the sister of Q

Therefore, P is the maternal uncle of Q.

S58.Ans.(b)

Sol. A puisne judge of a High Court is a judge other than Chief Justice of that High Court. A puisne judge is a judge who is ranked lower in seniority than the Chief Justice of that court. The term is used in common law countries like India and the UK.

S59.Ans.(a)

Sol. A persistent fall in the general price level of goods and services is known as Deflation.

Deflation is a persistent fall in the general price level of goods and services in an economy over a period of time. It is a sustained decrease in the average price level of goods and services, resulting in increased purchasing power for consumers.

S60.Ans.(a)

Sol. Lion eats flesh. In the same way Cow eats grass.

S61.Ans.(d)

Sol. Prime Minister Narendra Modi renamed Ross Island in Andaman & Nicobar Island as Netaji Subhas Chandra Bose Dweep. Ross Island was named after marine surveyor Daniel Ross.

S62.Ans.(c)

Sol.

Let unit's digit be x

and ten's digit be (10 – x)

Number = 10 (10 – x) + x = 100 – 10x + x = 100 – 9x

Interchanging the digits, then the number = 10x + (10 – x) = 10x + 10 – x = 9x + 10

ATQ,

9x + 10 = 100 – 9x – 54

➔ 9x + 9x = 46 – 10

➔ 18x = 36

➔ x = 2

Number = 100 – 9x = 100 – 9 (2) = 100 – 18 = 82.

S63.Ans.(c)

Sol. The fact that planets move around the Sun not in circles but ellipse, was demonstrated by Johannes Kepler. He was a German astronomer, mathematician, astrologer, natural philosopher and music writer. He has been described as the "father of science fiction" for his novel Somnium.

S64.Ans.(a)

Sol.

From 1st and 2nd Statement:

NIC means is

From 2nd and 3rd statement:

RE means hot

Therefore, TO means summer.

Answer is Option a.

S65.Ans.(c)

Sol.
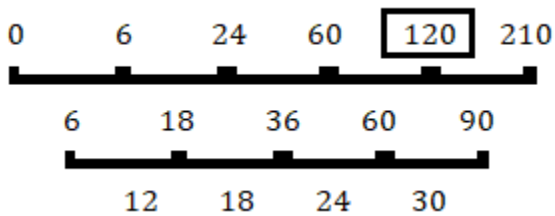
S66.Ans.(a)

Sol.

The average of the two numbers is xy.

Sum of two numbers = 2xy

one number is x

Other number = (2xy – x)

S67.Ans.(a)

Sol.

Area swept by it in 30 minutes = $\pi\ (7)^2\ \times \frac{30}{60}$ = 77 cm^2

S68.Ans.(b)

Sol.

Let the principal be Rs. x

and rate of interest be r%

Simple Interest = $\frac{x \times r \times 5}{100}$

➜ $\frac{2}{5}x = \frac{5xr}{100}$

➜ r = $\frac{2}{5} \times \frac{100}{5}$

➜ r = 8%

S69.Ans.(d)

Sol.

$\frac{4}{15}$ Anil = $\frac{2}{5}$ Sunil

➜ Anil = $\frac{2}{5} \times \frac{15}{4}$ Sunil

➜ Anil = $\frac{3}{2}$ Sunil

➜ $\frac{\text{Anil}}{\text{Sunil}} = \frac{3}{2}$

➜ Anil : Sunil = 3 : 2

Sunil's share = 1210 $\times \frac{2}{5}$ = Rs. 484

S70.Ans.(d)

Sol.

$\frac{P}{Q} = 7$

➜ $\frac{P + Q}{P - Q} = \frac{7 + 1}{7 - 1}$ [Using componendo and dividendo]

➜ $\frac{P + Q}{P - Q} = \frac{8}{6}$

➜ $\frac{P + Q}{P - Q} = \frac{4}{3}$

S71.Ans.(b)

Sol. The 61st Amendment Act of 1988, the Constitutional Amendment Act lowered the voting age from 21 years to 18 years in India. This Act deals with the amendment of Article 326 of the Constitution of India.

S72.Ans.(c)

Sol. The Berne Convention was a pioneer convention in the field of Protection of Intellectual Property Rights. It is an international treaty on copyright, which was first adopted in 1886 in the city of Berne, Switzerland. This convention was the first to recognize the intellectual property rights of independent states.

S73.Ans.(b)

Sol.

P ➔ + 8 ➔ X	J ➔ + 8 ➔ R
R ➔ + 8 ➔ Z Similerly,	L ➔ + 8 ➔ T
L ➔ + 8 ➔ T	F ➔ + 8 ➔ N
N ➔ + 8 ➔ V	H ➔ + 8 ➔ P

So correct answer is (b) RTNP.

S74.Ans.(b)

Sol.

If Sonali is x years old now, then 5 times her age 3 years ago is 5(x - 3).

S75.Ans.(b)

Sol.

Let total profit be Rs. x

Charity = x $\times \frac{5}{100} = \frac{5x}{100}$

Remaining profit = x - $\frac{5x}{100} = \frac{95x}{100}$

ATQ,

$\frac{95x}{100} \times \frac{3}{5}$ = 8550

➔ 0.57x = 8550

➔ x = Rs. 15000

S76.Ans.(c)

Sol.

Let the numbers are x and(29 – x)

$x^2 - (29 - x)^2$ = 145

➔ $x^2 - (841 - 58x + x^2)$ = 145

➔ $x^2 - 841 + 58x - x^2$ = 145

➔ 58x = 145 + 841

➔ 58x = 986

➔ x = 17

Two numbers are 17 and 12

The difference between the numbers = 17 – 12 = 5

S77.Ans.(b)

Sol.

Let age of Zahir, Jacob and Ramesh be x, y and z respectively.

ATQ,

y – x = x – z

➔ y + z = 2x

➔ 2x = 48

➔ x = 24

So, Zahir's age is 24 years.

S78.Ans.(d)

Sol.

LCM of 6, 7, 8, 9 and 12 = 504

Required number = 504 + 2 = 506

S79.Ans.(c)

Sol. The cotton industry flourished in the area marked in the map given below.

S80.Ans.(a)

Sol. The school with the largest student strength in world is City Montessori School, Lucknow, UP, India. Currently this school is known as the largest school in the world. The school has a total of 20 campuses across Lucknow city.

S81.Ans.(d)

Sol.

Let common multiple of heights be x

1st triangle's height = 3x

and 2nd triangle's height = 4x

Let 1st triangle's base = y

2nd triangle's base = z

Area of 1st triangle = $\frac{1}{2} \times y \times 3x$

Area of 2nd triangle = $\frac{1}{2} \times z \times 4x$

ATQ,

$\frac{\frac{1}{2} \times y \times 3x}{\frac{1}{2} \times z \times 4x} = \frac{4}{3}$

➔ $\frac{3y}{4z} = \frac{4}{3}$

➔ $\frac{y}{z} = \frac{4}{3} \times \frac{4}{3} = 16 : 9$

S82.Ans.(b)

Sol.

Let the number of wickets taken by bowler after the match be N.

So, number of runs given by bowler after match = (N – 5) × 12.4 + 26

= 12.4N - 62 + 26

= 12.4 N – 36

Average of bowler after match = $\frac{12.4\ N\ –\ 36}{N}$

ATQ,

$\frac{12.4\ N\ –\ 36}{N}$ = 12.4 – 0.4

➔ 12.4N – 36 = 12N

➔ 0.4N = 36

➔ N = 90

So, Number of wickets taken by bowler till last match = N – 5 = 90 – 5 = 85

S83.Ans.(b)

Sol. The full form of VPN in a computer is Virtual Private Network. A Virtual Private Network(VPN) is a technology that creates a secure and encrypted connection over a less secure network, such as the internet. It allows users to access a private network remotely, as if they were directly connected to the network.

S84.Ans.(b)

Sol.

The diagonal of a cube = 4√3 cm

Side of a cube = $\frac{4\sqrt{3}}{\sqrt{3}}$ = 4 cm

The surface area of the cube = 6 × $Side^2$ = 6 × 4^2 = 6 × 16 = 96 cm²

S85.Ans.(a)

Sol.

Difference of Selling price = 400 – 350 = Rs. 50

5% of Cost price = Rs. 50

Cost price = $50 \times \frac{100}{5}$ = Rs. 1000

S86.Ans.(b)

Sol.

(4.8 × 1.8 ÷ 3.6 + 5.4 of 1/9 - 1/5)

=(4.8 × 1.8 ÷ 3.6 + 0.6 - 1/5)

=(4.8 × 0.5 + 0.6 - 1/5)

=(2.4 + 0.6 – 0.2)

= 2.8

S87.Ans.(a)

Sol.

Let radius be r unit

Area = πr^2 unit²

Now radius increased by 1%, then radius = r + $(r \times \frac{1}{100})$ = r + $\frac{r}{100}$ = $\frac{101r}{100}$ unit

Area = $\pi \left(\frac{101r}{100}\right)^2$ unit² = $\pi \frac{10201}{10000} r^2$ unit²

Increase in area = $\pi \frac{10201}{10000} r^2$ - πr^2 = $\frac{10201\pi r^2 - 10000\pi r^2}{10000}$ = $\frac{201}{10000} \pi r^2$ unit²

Percentage increase in area = $\frac{\frac{201}{10000}\pi r^2}{\pi r^2} \times 100$ = 2.01%

S88.Ans.(a)

Sol. Mahatma Gandhi's real name is Mohandas Karamchand Gandhi. He was one of the pioneers of India's freedom movement. He himself was the founder of the Satyagraha movement. On 30 January 1948, he died at Birla House, New Delhi.

Pandit Jawaharlal Nehru was an Indian National Congress politician and a prominent leader of the Indian independence movement. He was elected as the first Prime Minister of independent India. He died on 27 May 1964.

Pandit Lal Bahadur Shastri was the second Prime Minister of independent India and one of the key leaders of the Indian National Congress Party. He died of a heart attack on 11th January 1966 at the age of 61.

Indira Gandhi was the former President of the Indian National Congress and the third Prime Minister. She was the only woman to be elected as the Prime Minister of India. She died on 31 October 1984 at his residence.

S89.Ans.(a)

Sol.

Selling price of 100 pens – Cost price of 100 pens = Selling price of 20 pens(Profit)

Selling price of 80 pens = Cost price of 100 pens

Let Cost price of each pen be Rs. x

Cost price of 100 pens = Rs. 100x = Selling price of 80 pens

Cost price of 80 pens = 80x

Profit % = $\frac{100x - 80x}{80x} \times 100 = \frac{20x}{80x} \times 100 = 25\%$

S90.Ans.(a)

Sol. The hour hand's 12 hour angle trace = 360°

Now, Angle traced by the hour hand in 8 hours 30 minutes, i.e., $\frac{17}{2}$ hours = $\frac{360}{12} \times \frac{17}{2}$ = 255°

The minute hand's 60 minutes angle trace = 360°

Now, Angle traced by the minute hand in 30 minutes = 360 $\times \frac{30}{60}$ = 180°

Required angle between two hands of the clock = 255° – 180° = 75°

S91.Ans.(b)

Sol. Let he has attempted correctly x questions and he has attempted wrongly be(30 – x) questions
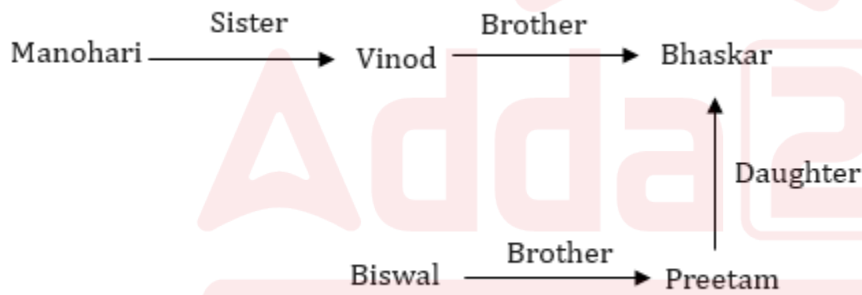
ATQ,

3x - 2(30 – x) = 40

➔ 3x – 60 + 2x = 40

➔ 5x = 100

➔ x = 20

S92.Ans.(c)

Sol.

Vinod is the uncle of Biswal.

S93.Ans.(c)

Sol. Let cost price be Rs. x

Selling price = x + $\frac{x}{6}$ = Rs. $\frac{7x}{6}$

ATQ,

$\frac{7x}{6}$ = 161
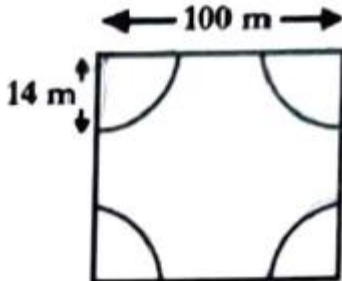
➔ x = 161 × $\frac{6}{7}$

➔ x = Rs. 138

S94.Ans.(a)

Sol.

Area of Square park = 100 × 100 = 10000 m²

Area of 4 quadrants = 4 $\times \frac{90}{360} \times \pi (14)^2$ = 4 $\times \frac{90}{360} \times \frac{22}{7} \times 14 \times 14$ = 616 m²

Area of remaining part of the park = 10000 – 616 = 9384 m²

S95.Ans.(d)

Sol. Writ refers to a type of order or direction issued by the High Court of India to enforce fundamental rights and provide legal remedies to citizens. There are five types of prerogative writs in the Indian Constitution. They are respectively - Habeas Corpus, Mandamus, Prohibition, Certiorari and Quo warranto.

S96.Ans.(c)

Sol. B is the son of C and C is the sister of M, M is the sister of B's mother C. Therefore M is the aunt of B

S97.Ans.(b)

Sol.

Let time taken in walking be x minutes

and time takken in riding be y minutes

Then,

x + y = 37 ……..(I)

x + x = 55

➔ 2x = 55

➔ x = $\frac{55}{2}$ = 27.5

y = 37 − 27.5 = 9.5

It would take me to ride both the ways = 9.5 × 2 = 19 minutes

S98.Ans.(a)

Sol. Taj Mahal is built of marble.

No article is required.

S99.Ans.(b)

Sol. The second prime number after 11 is 17. Similarly the second prime number after 19 is 29.

S100.Ans.(b)

Sol.

Let 1st number be x and 2nd number be y

ATQ,

x × $\frac{20}{100}$ + y = y × $\frac{150}{100}$

➔ 0.2x = 1.5y − y

➔ 0.2x = 0.5y

➔ $\frac{x}{y}$ = $\frac{0.5}{0.2}$

➔ x : y = 5 : 2