SSC CHSL Previous Paper 14 (Held On: 8 Jul 2019 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2019 • 100 questions • 60 minutes • Answer key and solutions

Take this paper as a timed mock test

Practise under exam conditions, then review your answers after you submit.

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ENGLISH LANGUAGE

Q1. Select the most appropriate word for the group of words.

An official pardon

(a) amnesia
(b) redemption
(c) regicide
(d) amnesty

Q2. Select the most appropriate meaning of the given idiom.

As the crow flies

(a) a long winding path
(b) to be directionless
(c) the shortest route
(d) to be uncertain

Q3. Select the most appropriate passive form of the given sentence.

The surgeon successfully operated upon the patient.

(a) The patient is being successfully operated upon by the surgeon.
(b) The surgeon has been successfully operated upon by the patient.
(c) The patient is successfully operated upon by the surgeon.
(d) The patient was successfully operated upon by the surgeon.

Q4. Select the wrongly spelt word.

(a) eligible
(b) extension
(c) extract
(d) explaination

Q5. Identify the segment which contains the grammatical error

Pleasure cannot derive from giving pain to innocent people.

(a) from giving
(b) Pleasure cannot derive
(c) pain to
(d) innocent people

Q6. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

I was astonished on the ignorance in the villagers.

(a) over the ignorance between
(b) No substitution

(c) on the ignorance by
(d) at the ignorance of

Q7. Select the most appropriate word for the group of words.

One who walks on foot

(a) pauper
(b) pediatrician
(c) pedestrian
(d) protagonist

Q8. Fill in the blank with the most appropriate word.

All organizations seek sincere and _____ employees.

(a) inactive
(b) industrial
(c) inert
(d) industrious

Q9. Select the most appropriate synonym of the given word.

INTREPID

(a) insecure
(b) gallant
(c) cowardly
(d) invisible

Q10. Select the most appropriate antonym of the given word.

FLEXIBLE

(a) stiff
(b) pliant
(c) elastic
(d) variable

Directions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

As the rains receded I got a strange job. Our neighbour, a (1) ____ merchant decided to become a politician. But he was (2) __ so he wanted me to (3) __ him everywhere he went and read and write (4) __ him. For my work I was to be paid decent (5) ____.

Q11. Select the most appropriate option to fill in blank number 1

(a) prosperous
(b) affluent
(c) populous
(d) ambitious

Q12. Select the most appropriate option to fill in blank number 2

(a) illiterate
(b) illegitimate
(c) illogical
(d) illegible

Q13. Select the most appropriate option to fill in blank number 3

(a) attend
(b) coincide
(c) accompany
(d) coexist

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Q14. Select the most appropriate option to fill in blank number 4

(a) for
(b) from
(c) on
(d) through

Q15. Select the most appropriate option to fill in blank number 5

(a) bonus
(b) prize
(c) wages
(d) reward

Q16. Select the most appropriate antonym of the given word.

ASCENT

(a) recent
(b) descent
(c) crescent
(d) nascent

Q17. Select the most appropriate indirect form of the given sentence.

Father said to his daughter, "I will attend your convocation tomorrow."

(a) Father told his daughter I will attend her convocation tomorrow.
(b) Father told his daughter that he would attend her convocation the next day.
(c) Father told his daughter that he will attend her convocation tomorrow.
(d) Father told his daughter that he will be attending her convocation the next day.

Q18. Identify the segment which contains the grammatical error.

Lack of formal education did not prevent Lincoln to become a great leader.

(a) a great leader
(b) did not prevent
(c) Lack of
(d) to become

Q19. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. But when their short racing careers are over, greyhounds are adopted as household pets.
B. Greyhound racing is a popular spectator sport in the United States.
C. They worry that the greyhounds would need a large space to run to get sufficient exercise.
D. Unfortunately, many people hesitate to adopt a retired racing greyhound as a pet.

(a) DBCA
(b) BDAC
(c) DACB
(d) BADC

Q20. Fill in the blank with the most appropriate word.

I had _____ pain in the stomach after taking lunch.

(a) huge
(b) heavy
(c) acute
(d) strict

Q21. Select the correctly spelt word.

(a) opportunity
(b) oportunity
(c) oppertunity

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(d) oppurtunity

Q22. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

No sooner was his name called out when he was gone onto the stage to receive the award.

(a) but he went
(b) than he went
(c) No substitution
(d) and he was going

Q23. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. Little did she know that I was out of job once again.

B. But all the money soon vanished into the bottomless pit of household needs.

C. I returned home with my pockets full of my earnings.

D. However, my grandmother was happy that I had become responsible.

(a) CBDA
(b) BCDA
(c) CDAB
(d) DBAC

Q24. Select the most appropriate synonym of the given word.

RESOLUTE

(a) hesitant
(b) uncertain
(c) unsure
(d) determined

Q25. Select the most appropriate meaning of the given idiom.

Pass the hat

(a) to play a game
(b) to collect money
(c) to sell something
(d) to avoid work

GENERAL INTELLIGENCE

Q26. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

(a) VXZB
(b) BDGJ
(c) JLNP
(d) DFHJ

Q27. If FINANCIAL is coded as 695153913, then how will LUCRATIVE be coded as?

(a) 333912945
(b) 433922945
(c) 333912955
(d) 343912945

Q28. Three friends A, B and C have different amounts of rupees with them. If B takes Rs. 7 from A, then B will have equal amount as C has. B and C together have total Rs. 157. How many rupees does C have?

(a) 83
(b) 82
(c) 80
(d) 81

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Q29. Select the set in which the numbers are related in the same way as are the numbers of the following set.

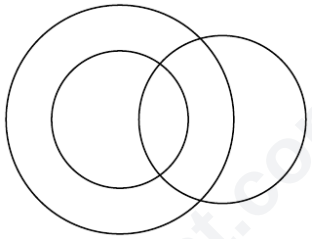
(8, 27, 64)

(a) (49, 64, 81)
(b) (216, 343, 529)
(c) (125, 636, 864)
(d) (343, 512, 729)

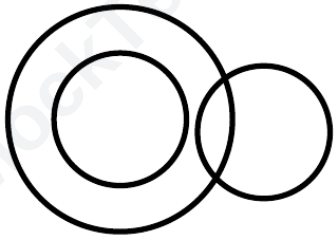
Q30. Select the Venn diagram that best illustrates the relationship between the following classes.

Mobile phones, Electronic devices, Laptops

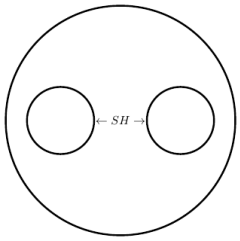
(a)



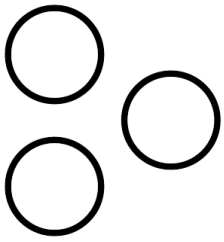
(b)



(c)



(d)



Q31. Which of the following sequence of signs will correctly solve the given equation by replacing the question marks?

1105 ? 65 ? 835 ? 25 ? 5 = 727

(a) •, ÷, –, ×
(b) ×, –, +, ÷
(c) •, –, ×, ÷
(d) ÷, +, –, ×

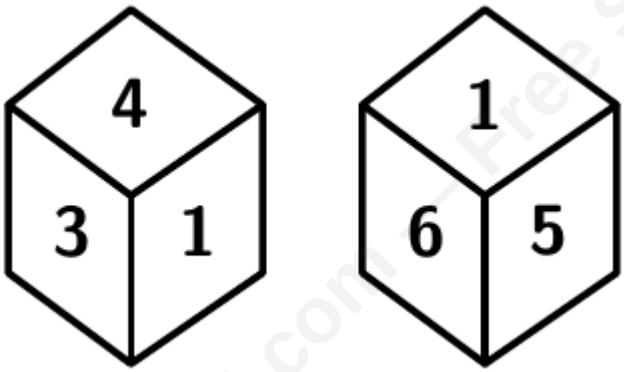
Q32. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.

Exercise : Fitness

(a) Harmony : War

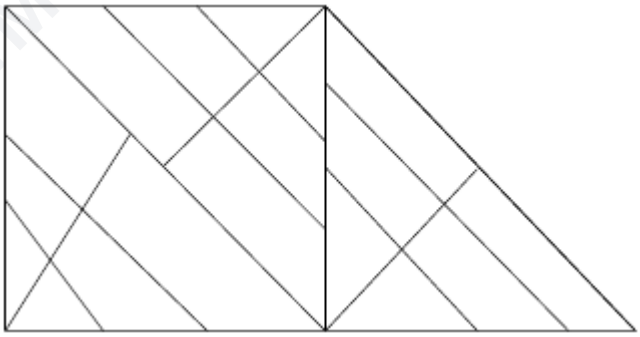
(b) Hobby : Internet
(c) Education : Institute
(d) Treatment : Recovery

Q33. The different positions of the same dice are shown below, the six faces of which are numbered 1 to 6. Find the number opposite to the face having 1.



(a) 4
(b) 5
(c) 3
(d) 2

Q34. How many triangles are present in the given figure?



(a) 29
(b) 30
(c) 28
(d) 27

Q35. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.
(a) Vitamins
(b) Protein
(c) Energy
(d) Carbohydrates

Q36. A + B means ‘A is mother of B’
A – B means ‘A is husband of B’
A × B means ‘A is son of B’
A ÷ B means ‘A is brother of B’
If Q ÷ U × K × H – D + J, then how is K related to J?
(a) Brother
(b) Sister
(c) Father
(d) Paternal uncle

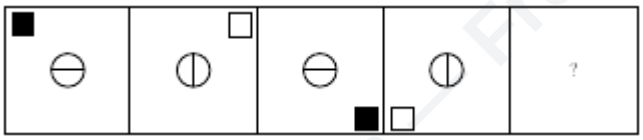
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Q37. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

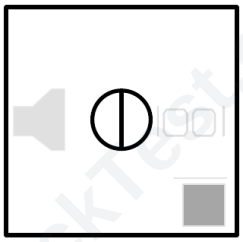
KSOE : MQQC : : ACZN : ?

(a) CABL
(b) CBBL
(c) DACL
(d) CABK

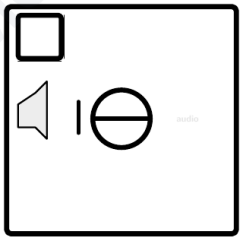
Q38. Select the figure that will come next in the following figures series.



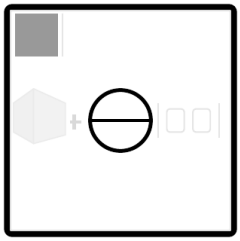
(a)



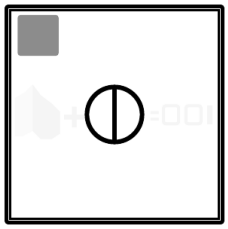
(b)



(c)



(d)



Q39. Arrange the following activities in a logical and meaningful order.

1. Marriage hall booking
2. Deciding marriage day
3. Inviting guests
4. Marriage ceremony
5. Invitation cards printing

(a) 2, 1, 3, 5, 4

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(b) 2, 1, 5, 3, 4
(c) 2, 1, 3, 4, 5
(d) 1, 2, 3, 5, 4

Q40. Two statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All equipments are screw-drivers.

All machines are equipments.

Conclusions:

I. Some screw-drivers are equipments.

II. Some screw-drivers are machines.

III. All equipments are machines.

(a) All conclusions follow.
(b) Only conclusions II and III follow.
(c) Only conclusions I and II follow.
(d) Only conclusions I and III follow.

Q41. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(4, 41, 5)

(a) (2, 21, 4)
(b) (6, 85, 8)
(c) (7, 81, 9)
(d) (5, 61, 6)

Q42. Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.

12 : 102

(a) 6 : 52
(b) 8 : 68
(c) 16 : 218
(d) 14 : 126

Q43. In a code language, CARNIVAL is written as LPYAJYTG. How will DISTANCE be written as in that language?

(a) RPGBCZLY
(b) RQGBDAMY
(c) RQGBCALY
(d) SQHBCALZ

Q44. Which number will replace the question mark (?) in the following series?

25, 42, 67, 101, 145, ?

(a) 199
(b) 200
(c) 202
(d) 201

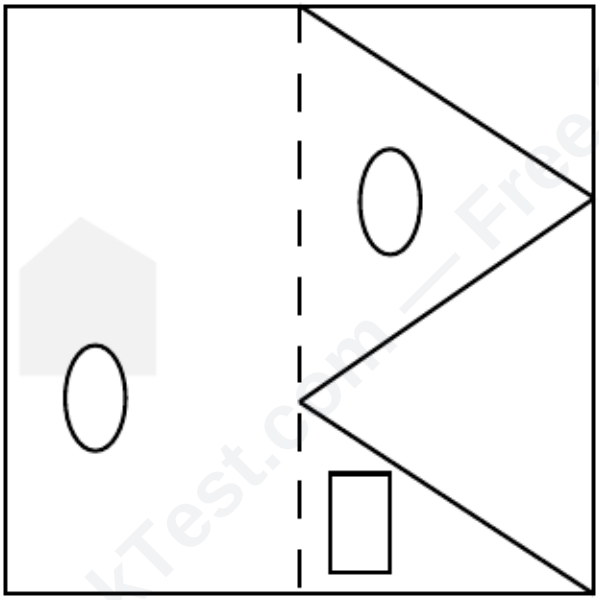
Q45. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

t s m _ _ n q _ _ s m m n _ _ s t _ m m n _ q s

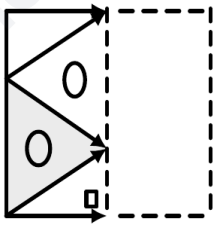
(a) mmstmqtn
(b) mnstnqmn
(c) nmstnqns

(d) mnstnqsn

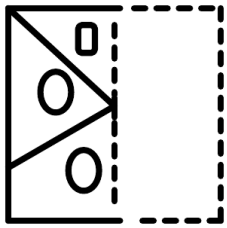
Q46. A figure of transparent sheet with a pattern is given below. Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.



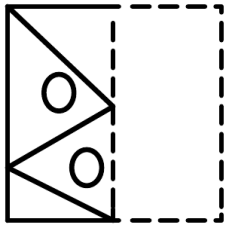
(a)



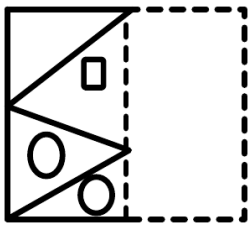
(b)



(c)



(d)



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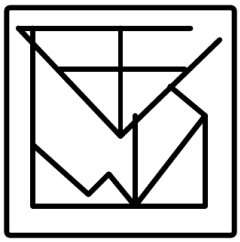
Q47. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

(a) 193
(b) 191
(c) 171
(d) 173

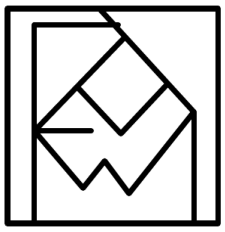
Q48. Select the option in which Figure-X is embedded. (Rotation is not allowed)



(a)



(b)

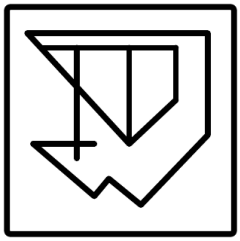


(c)

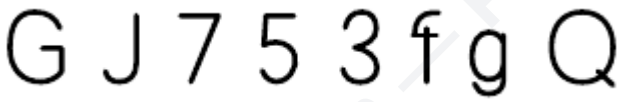


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(d)



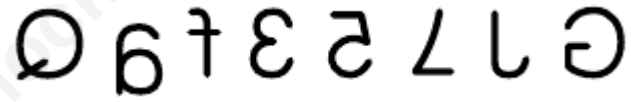
Q49. Select the correct mirror of the given figure when the mirror is placed to the right of the figure?



(a)



(b)



(c)



(d)

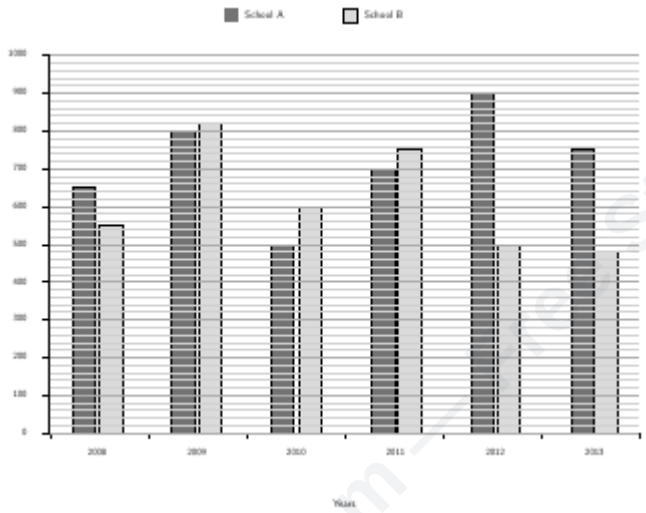


Q50. ‘Heart’ is related to ‘Circulation’ in the same way as ‘Lungs’ are related to ‘_____’.

(a) Ribs
(b) Oxygen
(c) Excretion
(d) Respiration

QUANTITATIVE APTITUDE

Q51. The given Bar Graph presents the number of students of two schools for six years.



What is the average number of students from school B during the six year period (correct to two decimal)?

(a) 656.17
(b) 660.17
(c) 616.67
(d) 664.37

Q52. If each side of a triangle is increased by 22%, then its area will increase by:

(a) 48.84%
(b) 46.65%
(c) 44%
(d) 50%

Q53. If cos x = -1/2 and π < x < 3π/2, then the value of 2tan2x – 3cosec2x is:

(a) 2
(b) 10
(c) 4
(d) 8

Q54. A person purchased a vehicle for Rs. 4,89,828 and sold it for Rs. 5,89,828. What is the profit percent he earned on this vehicle (correct to two decimal places)?

(a) 15%
(b) 20.42%
(c) 18.65%
(d) 25%

Q55. Two students A and B appeared in an exam, A secured 8 marks more than B and the marks of the former were 55% of the sum of their marks. Find the sum of marks obtained by A and B.

(a) 80
(b) 100
(c) 75
(d) 90

Q56. Two numbers are ratio 3 : 4. On increasing each of them by 30, the ratio becomes 9 : 10. The sum of the numbers is:

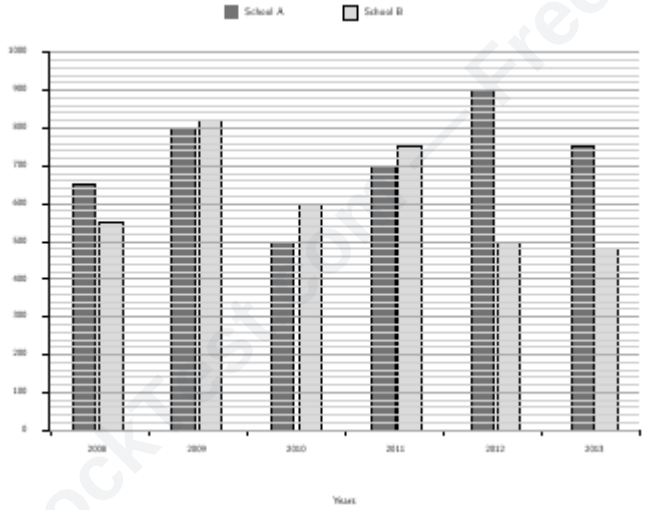
(a) 25
(b) 32
(c) 30
(d) 35

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Q57. The sum of salaries of A and B is Rs. 43000. A spends 95% of his salary and B spends 80% of his salary. If their savings are the same, what is A's salary (in Rs.)?

(a) 35000
(b) 8000
(c) 10600
(d) 34400

Q58. The bar graph given presents the number of students of two schools for six years.



In which year, the absolute difference between the numbers of students in two schools is the highest?

(a) 2010
(b) 2012
(c) 2011
(d) 2013

Q59. If an 8-digit number 30x558y2 is divisible by 88, then the value of (6x + 6y) is:

(a) 35
(b) 42
(c) 30
(d) 66

Q60. There are two circles of radius 5 cm and 3 cm respectively. The distance between their center's is 10 cm. The length (in cm) of a transverse common tangent is:

(a) 10 cm
(b) 6 cm
(c) 8 cm
(d) 9 cm

Q61. The ratio between the speeds of two trains is 2 : 5. If the first train covers 350 km in 5 hours, then the speed (in km/h) of the second train is:

(a) 165
(b) 150
(c) 175
(d) 180

Q62. In a ΔABC, the bisectors of angle B and angle C meet at O within the triangle. If angle A = 110°, then the measure of angle BOC is:

(a) 145°
(b) 84°
(c) 110°
(d) 55°

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Q63. In triangle ABC, the length of BC is less than twice the length of AB by 3 cm. The length of the AC exceeds the length of AB by 1 cm. The perimeter of the triangle is 34 cm. The length (in cm) of the smaller side of the triangle is:

(a) 9
(b) 10
(c) 7
(d) 8

Q64. A and B can complete a piece of work in 15 days and 10 days respectively. They got a contract to complete the work for Rs. 35000. The share of A (in Rs.) in the contracted money will be:

(a) 14000
(b) 15000
(c) 7000
(d) 21000

Q65. If 3^(x^(1/4)) + 4^(x^(1/4)) = 5^(x^(1/4)) then the value of x is:

(a) 2
(b) 16
(c) 8
(d) 4

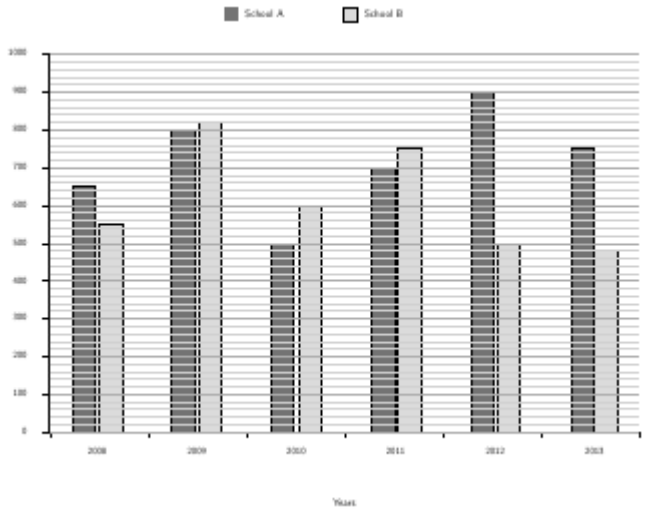
Q66. A dealer buys an article marked at Rs. 20000 with two successive discounts of 20% and 5%. He spends Rs. 1000 for its repair and sells it for Rs. 20000. What is his profit/loss percent (correct to two decimal places)?

(a) 25.64% loss
(b) 25.64% profit
(c) 23.64% loss
(d) 23.46% profit

Q67. If $x = 2 + \sqrt{3}$ then the value of $x^3 + x^{(-3)}$ is:

(a) $52\sqrt{3}$
(b) 52
(c) $-52\sqrt{3}$
(d) -52

Q68. The given Bar Graph presents the number of students of two schools for six years.



In which year, the percentage increase in students in school B is the highest in comparison to its previous year?

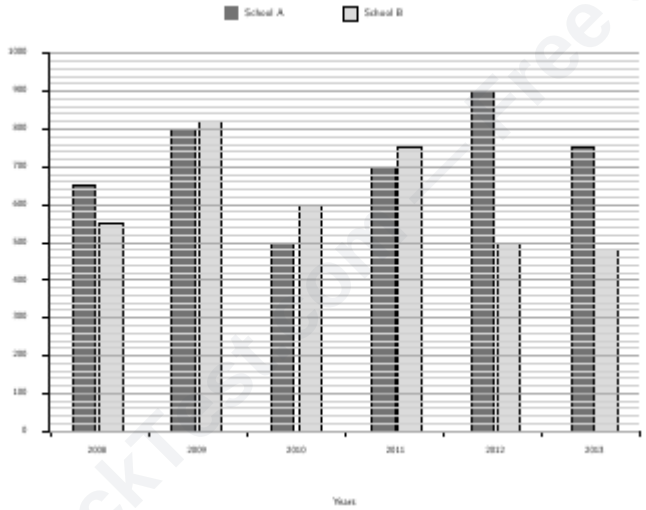
(a) 2009
(b) 2011
(c) 2010
(d) 2013

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Q69. If $\text{cosec}\theta = 3x$ and $\cot\theta = 3/x$, $(x \neq 0)$ then the value of $6(x^2 - 1/x^2)$ is:

(a) 12
(b) 1
(c) 14
(d) 2/3

Q70. The given Bar Graph presents the number of students of two schools for six years.



What is the ratio of students taken for all years together from School B to that from school A?

(a) 401 : 415
(b) 415 : 401
(c) 370 : 429
(d) 429 : 370

Q71. The average age of 15 persons is 32 years. If two more persons are added, then the average is increased by 3 years. The new persons have age difference of 7 years. The age (in years) of the youngest among the new persons is:

(a) 58
(b) 50
(c) 61
(d) 54

Q72. The chord of the contact of tangents drawn from a point on the circle $x^2 + y^2 = a^2$ to the circle $x^2 + y^2 = b^2$ touches the circle $x^2 + y^2 = c^2$ such that $b^p = a^m c^n$, where m, n, p, ε N, and m, n, p are prime to each other, then the value of $2m + n + 2p - 3$ is:

(a) 6
(b) 5
(c) 2
(d) 4

Q73. The simplified value of $((31/5 + 3/5) \div 8/5)/(11/7 \div \{5/7 + (1/7 \div 1/3)\})$ is:

(a) 19/8
(b) 19/16
(c) 19/64
(d) 19/7

Q74. If $(x - 8)^3 + (2x + 16)^3 + (2x - 13)^3 = 3(x - 8)(2x + 16)(2x - 13)$ then find the value of x.

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

Q75. If $2(\text{cosec}^2 39° - \tan^2 51°) - 2/3(\sin 90°) - \tan^2 56° \text{ y } \tan^2 34° = y/3$, then the value of y is:

(a) -1
(b) 1
(c) 23
(d) -23

GENERAL AWARENESS

Q76. India won a total of _____ medals at the Special Olympics World Summer Games held in Abu Dhabi from 14 to 21 March 2019.

(a) 441
(b) 368
(c) 252
(d) 312

Q77. Which one of the following is the joint Army exercises between France and India?

(a) Khanjar
(b) Sampriti
(c) Shakti
(d) Garuda Shakti

Q78. The Vikramashila University was founded by _____.

(a) Bimbisara
(b) Dharmapala
(c) Chandragupta-I
(d) Ashoka

Q79. _____ was the network that became the basis for the Internet.

(a) HTTP
(b) Clusters
(c) SSID
(d) ARPANET

Q80. With which of the following sports was Narender Hirwani associated?

(a) Hockey
(b) Boxing
(c) Football
(d) Cricket

Q81. Which of the following is the capital of the Union Territory Dadra and Nagar Haveli?

(a) Daman
(b) Kavaratti
(c) Silvassa
(d) Port Blair

Q82. _____ are stable, negatively charged particles found in all atoms.

(a) Photons
(b) Electrons
(c) Protons
(d) Neutrons

Q83. The currency of Japan is _____.

(a) Yen
(b) Dollar
(c) Renminbi

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(d) Euro

Q84. _____ gas gives an orange glow when electricity is passed through it. It is generally used in fluorescent lighting.

(a) Nitrogen
(b) Oxygen
(c) Hydrogen
(d) Neon

Q85. With which of the following sports is the term 'Cox' associated?

(a) Boxing
(b) Long Jump
(c) Javelin Throw
(d) Boat Racing

Q86. _____ is the final value of all the finished goods and services produced within a country's borders in a specific time period.

(a) Government revenue
(b) Gross National Product
(c) Gross Domestic Product
(d) Net National Product

Q87. The 'i-help' initiative to promote digital electoral literacy has been launched in which of the following states?

(a) Bihar
(b) Arunachal Pradesh
(c) Assam
(d) Chhattisgarh

Q88. The border between India and Bhutan adjoins _____ Indian states.

(a) Five
(b) Two
(c) Three
(d) Four

Q89. The hill station of Chail is located in _____.

(a) Himachal Pradesh
(b) Madhya Pradesh
(c) Uttar Pradesh
(d) Arunachal Pradesh

Q90. Who decides the admissibility of Questions in Lok Sabha?

(a) Vice President
(b) Prime Minister
(c) Deputy Speaker
(d) Speaker

Q91. Which of the following rivers originates in Amarkantak Hill in Madhya Pradesh?

A. Gomti
B. Periyar
C. Narmada
D.Ravi

(a) D
(b) B
(c) C
(d) A

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Q92. In which city has India's first HIV treatment centre and clinic for the lesbian, gay, bisexual, transgender and queer (LGBTQ) community been inaugurated?

(a) Bhopal
(b) Mumbai
(c) Bengaluru
(d) Kolkata

Q93. Who among the following wrote the book 'The Namesake'?

(a) Amitav Ghosh
(b) Jhumpa Lahiri
(c) Arundhati Roy
(d) Siddhartha Mukherjee

Q94. Which one of the following is an Audio Tool?

(a) Blender
(b) Avidemus
(c) Dscaler
(d) Ardour

Q95. The present day city of Bhopal was built by which of the following Pratihara rulers?

(a) Mihir Bhoja
(b) Vijayasena
(c) Rajyapala
(d) Mahendra Bhoja

Q96. The first session of the first Lok Sabha commenced on _____.

(a) 26^(th) January 1950
(b) 13^(th) May 1952
(c) 15^(th) August 1951
(d) 15^(th) August 1947

Q97. In August 2018, _____ became the first Indian to win the 'Best Actor' award at the Norwegian national awards held in Haugesund, Norway.

(a) Adil Hussain
(b) Irrfan Khan
(c) Nawazuddin Siddique
(d) Nasiruddin Shah

Q98. Rusting of iron is an example of _____.

(a) condensation
(b) corrosion
(c) combustion
(d) evaporation

Q99. The 'Pattachitra' style of painting is one of the oldest and most popular art forms of _____

(a) West Bengal
(b) Assam
(c) Odisha
(d) Rajasthan

Q100. From which Indian state did 'Warli Art' originate?

(a) Kerala
(b) Rajasthan
(c) Madhya Pradesh
(d) Maharashtra

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ANSWER KEY

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

SOLUTIONS

Q1. Answer: (d) amnesty

The solution is in Hindi. Read it online.

Q2. Answer: (c) the shortest route

The correct answer option 3) i.e. the shortest route.

• Meaning of the idiom as the crow flies - In a straight line, by the shortest route.

Q3. Answer: (d) The patient was successfully operated upon by the surgeon.

The correct answer is option 4) i.e. the patient was successfully operated upon by the surgeon.

• The active voice is in the past indefinite, hence, while making the passive voice 'was' will be used.

• And the subject and object of the active voice will be interchanged.

• All these rules are followed in option 4), hence, it is the correct answer.

Q4. Answer: (d) explaination

The correct answer is option 4) i.e. explaination.

• The correct spelling is 'explanation'.

• Eligible: satisfying the appropriate conditions.

• Extension: the action or process of enlarging or extending something.

• Extract: remove or take out, especially by effort or force.

Q5. Answer: (b) Pleasure cannot derive

The correct answer is option 2) i.e. pleasure cannot derive.

• 'pleasure cannot derive' is wrongly used in option 2).

• In this sentence 'pleasure' is used in passive sense and the sentence means no one can derive pleasure from giving pain to innocent people.

• Hence, 'pleasure cannot be derived' will be used here.

• So, the correct sentence will be: Pleasure cannot be derived from giving pain to innocent people.

Q6. Answer: (d) at the ignorance of

The correct answer is option 4) i.e. at the ignorance of.

• We cannot use 'ignorance in' because ignorance is related to someone, hence, 'ignorance of' will be used.

• Moreover, astonish takes 'at' as a preposition with it.

• Thus, option 4) is the most appropriate option to substitute the underlined segment.

Q7. Answer: (c) pedestrian

The correct answer is option 3) i.e. pedestrian.

• Pedestrian: a person walking rather than traveling in a vehicle.

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• Pauper: a very poor person.
• Pediatrician: a medical practitioner specializing in children and their diseases.
• Protagonist: an advocate or champion of a particular cause or idea.

Q8. Answer: (d) industrious

The correct answer is option 4) i.e. industrious.
• Options 1 and 3 cannot be the correct answer because these are the negative words and in the blank we need a positive word.
• Industrious is the correct answer and it means diligent and hard-working. This fits in the context of the given sentence, hence,will be used here.
• Note: Inert- lacking the ability or strength to move.

Q9. Answer: (b) gallant

The correct answer is option 2) i.e. gallant.
• Intrepid: fearless, brave
• gallant: a brave person, hence, this is the most appropriate synonym of the given word.
• Insecure: not sufficiently protected.
• Cowardly: lacking courage.
• Invisible: that cannot be seen.

Q10. Answer: (a) stiff

The correct answer is option 1) i.e. stiff.
• Flexible: capable of bending easily without breaking.
• Stiff: not easily bent or changed in shape, hence, this is the most appropriate antonym of the given word.
• Pliant: easily bent.
• Elastic: able to resume its normal shape spontaneously after being stretched or compressed.
• Variable: not consistent or having a fixed pattern.

Q11. Answer: (a) prosperous

The correct answer is option 1) i.e. prosperous.
• The article used before the blank is 'a', so, we cannot use affluent and ambitious in the blank, since the article 'a' comes only before words that begin with a consonant sound.
• Populous means an area having a large population. This, too, doesn't fit in the context of the given sentence.
• Prosperous means successful in material terms. This fits the best in the context of the given sentence, hence, it will be used in the blank.

Q12. Answer: (a) illiterate

the correct answer is option 1) i.e. illiterate.
• We can conclude from the next sentence that the merchant was illiterate because he wanted someone to be with him so that he could read and write for the merchant.
• So, illiterate which means someone unable to read and write, is the correct word to be used here in the blank.
• Illegitimate means not accepted by law.
• Illogical means without any logic.
• Illegible means that which cannot be read; unreadable.

Q13. Answer: (c) accompany

The correct answer is option 3) i.e. accompany.
• Accompany means go somewhere with (someone) as a companion.
• And in the given sentence the merchant wants someone to go with him so that he could read and write for the merchant. So, 'accompany' is the most appropriate word to be used here.
• All the other words do not fit in the context of the given sentence.
• Coincide means to occur at the same time.
• Coexist means to exist together.

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Q14. Answer: (a) for

The correct answer is option 1) i.e. for.

• 'for' is used to show a purpose and in the given sentence the purpose is to read and write 'for' the merchant.

• So, 'for' is the most appropriate option to fill in the blank number 4.

Q15. Answer: (c) wages

The correct answer is option 3) i.e. wages.

• Wage: a fixed regular payment earned for work or services.

• This fits best in the context of the given sentence, hence, it will be used in the blank.

• Bonus: a sum of money added to a person's wages as a reward for good performance.

• Prize: a thing given as a reward to the winner of a competition

• Reward: a thing given in recognition of service, effort, or achievement.

Note: Since the adjective 'decent' has been used before the noun, it refers to the basic salary ie. wage. Since we are talking about 'wage' in its plural form, it becomes 'wages'.

Q16. Answer: (b) descent

The correct answer is option 2) i.e. descent.

• Ascent: a climb or walk to the summit of a mountain or hill.

• Descent: an act of moving downwards. Hence, this is the antonym of the given word.

• Recent: belonging to a past period comparatively close to the present.

• Crescent: a thing that has the shape of a single curve that is broad in the center and tapers to a point at each end.

• Nascent: just coming into existence and beginning to display signs of future potential.

Q17. Answer: (b) Father told his daughter that he would attend her convocation the next day.

The correct answer is option 2) i.e. Father told his daughter that he would attend her convocation the next day.

• While changing direct speech into indirect speech 'said to' is changed into 'told' and the present tense is changed into 'the past tense'.

• Moreover, tomorrow is changed into the next day.

• All these rules are followed in option 2) only, hence, the correct answer is option 2).

Q18. Answer: (d) to become

The correct answer is option 4) i.e. to become.

• The word 'prevent' takes 'from' as a preposition with it.

• Hence, 'prevent Lincoln from becoming' will be used in the given sentence.

• So, the correct sentence will be: Lack of formal education did not prevent Lincoln from becoming a great leader.

Q19. Answer: (d) BADC

The correct answer is option 4) i.e. BADC.

• Sentence 'B' is the only independent sentence, hence, it will be the first sentence.

• Sentence 'A' will follow the sentence 'B' because sentence 'B' talks about Greyhound sport and sentence 'A' talks about the Greyhounds when their career is over.

• This combination i.e. BA is given in only one option i.e. 4.

• Hence, the correct answer is option 4.

Q20. Answer: (c) acute

The correct answer is option 3) i.e. acute.

• Acute means experienced to a severe or intense degree.

• This fits best in the context of the given sentence because 'acute pain' is the correct phrase to be used here.

• Huge: very large.

• Heavy: of great weight.

• Strict: following rules or beliefs exactly.

Q21. Answer: (a) opportunity

The correct answer is option 1) i.e. opportunity.

• Opportunity: a time or set of circumstances that makes it possible to do something.

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Q22. Answer: (b) than he went

The correct answer is option 2) i.e. than he went.

• No sooner takes 'than' with it.

• 'he was gone' is also wrong here and it will be replaced by 'he went'.

• So, the sentence after substitution will be: No sooner was his name called out than he went onto the stage to receive the award.

Q23. Answer: (a) CBDA

The correct answer is option 1) i.e. CBDA.

• The only independent sentence from the given sentences is 'C'. Hence, options 2 and 4 cannot be the answer.

• Sentence 'C' talks about the earnings and sentence 'B' talks about the money that was vanished. So, the correct pair is 'CB'.

• This combination is only in option 1), hence, option 1) is the correct answer.

Q24. Answer: (d) determined

The correct answer is option 4) i.e. determined.

• Resolute: determined, and unwavering.

• Hesitant: tentative, unsure, or slow in acting or speaking.

• Uncertain: not completely confident or sure of something.

• Unsure: not fixed or certain.

Q25. Answer: (b) to collect money

The correct answer is option 2) i.e. to collect money.

• Pass the hat: collect contributions of money from a number of people for a specific purpose.

• Out of the given options only option 2) conveys the meaning of the given idiom, hence, it is the correct answer.

Q26. Answer: (b) BDGJ

The pattern followed here is:

1) V + 2 = X; X + 2 = Z; Z + 2 = B

2) B + 2 = D; D + 2 = F ≠ G; F + 2 = H ≠ J

3) J + 2 = L; L + 2 = N; N + 2 = P

4) D + 2 = F; F + 2 = H; H + 2 = J

Hence, “BDGJ” is the correct answer.

Q27. Answer: (a) 333912945

The pattern followed here is:

Similarly,

Hence, “333912945” is the correct answer.

Q28. Answer: (b) 82

Let the amount with B be X. Then, amount with B after taking Rs. 7 from A = X + 7

According to the given information, amount with C = X + 7.

Also, the amount with C + amount with B before taking Rs. 7 = 157.

=> X + 7 + X = 157

=> 2X = 157 - 7 = 150

=> X = 75

Thus, amount with C = 75 + 7 = 82.

Hence, C has Rs 82.

Q29. Answer: (d) (343, 512, 729)

The pattern followed here is:

(8, 27, 64) = (2^3, 3^3, 4^3)

Similarly,

(343, 512, 729) = (7^3, 8^3, 9^3)

Hence, “(343, 512, 729)” is the correct answer.

Q30. Answer: (c) [figure]

Mobile Phones and Laptops are two different types of electronic devices.

Hence, “option 3” is the correct answer.

Q31. Answer: (d) ÷, +, –, ×

Given equation: 1105 ? 65 ? 835 ? 25 ? 5 = 727

Let's check each option:

1) +, ÷, -, ×

1105 + 65 ÷ 835 – 25 × 5

= 1105 + 0.077 – 125

= 980.077 ≠ 727

2) ×, –, +, ÷

1105 × 65 – 835 + 25 ÷ 5

= 71825 – 835 + 5

= 70995 ≠ 727

3) +, -, ×, ÷

1105 + 65 – 835 × 25 ÷ 5

= 1170 – 4175

= 3005 ≠ 727

4) ÷, +, –, ×

1105 ÷ 65 + 835 – 25 × 5

= 17 + 835 – 125

= 727

Hence, “÷, +, –, × ” is the correct answer.

Q32. Answer: (d) Treatment : Recovery

Exercise : Fitness

Fitness is the outcome of Exercise.

Similarly,

Treatment : Recovery

Recovery is the outcome of Treatment.

Hence, “Treatment : Recovery” is the correct answer.

Q33. Answer: (d) 2

3 and 4 are adjacent to 1 in the first position of the dice.

5 and 6 are adjacent to 1 in the second position of the dice.

The only number left is 2.

Hence, the number opposite to the face having 1 is 2.

Q34. Answer: (d) 27

The triangles in the given figure are :

EMT, ETL, EML, ESN, ESK, ENK, EAR, EDR, EAD, BFV, BFO, BVO, BHZ, BHP, BZP, BAD, BAQ, BDQ, DWJ, DWY, DJY, DUI, DUX, DIX, DBC, DBG, DCG.

Hence, “27” is the correct answer.

Q35. Answer: (c) Energy

Vitamins, Protein, Carbohydrates are different classes of nutrients.

But, energy is the result of consuming these nutrients.

Hence, “Energy” is the correct answer.

Q36. Answer: (a) Brother

Using the table of symbols given below, we can draw the family tree:

A is				

Symbol	•	•	×	÷
Meaning	Mother	Husband	Son	Brother
Of B				

Now draw the family tree using the above notation:

"Q ÷ U × K × H – D + J" means Q is the brother of U; U is the son of K; K is the son of H; H is the husband of D; D is the mother of J.

Hence, K is the brother of J.

Q37. Answer: (a) CABL

The pattern followed here is:

Similarly,

Hence, “CABL” is the correct answer.

Q38. Answer: (c) [figure]

The circle is rotating at 90 degrees in the clockwise direction.

The square is rotating in the clockwise direction. It is shaded at alternate steps.

Hence, the figure in option 3 is the correct answer.

Q39. Answer: (b) 2, 1, 5, 3, 4

Following are the steps of organizing a marriage ceremony:

2) Deciding marriage day

1) Marriage hall booking

5) Invitation cards printing

3) Inviting guests

4) Marriage ceremony

Hence, “2, 1, 5, 3, 4” is the correct answer.

Q40. Answer: (c) Only conclusions I and II follow.

The possible Venn diagram is as follows:

I. Some screw-drivers are equipments → True (All equipments are screw-drivers)

II. Some screw-drivers are machines → True (All machines are equipments which are screw-drivers. So, some screw-drivers are machines).

III. All equipments are machines → False (it is possible but not definite).

Hence, “only conclusions I and II follow” is the correct answer.

Q41. Answer: (d) (5, 61, 6)

The pattern followed here is:

(4, 41, 5) → 4 × 5 = 20 and (20 × 2) + 1 = 41

Let's check each option:

1) (2, 21, 4) → 2 × 4 = 8 and (8 × 2) + 1 = 17 ≠ 21

2) (6, 85, 8) → 6 × 8 = 48 and (48 × 2) + 1 = 97 ≠ 85

3) (7, 81, 9) → 7 × 9 = 63; (63 × 2) + 1 = 127 ≠ 81

4) (5, 61, 6) → 5 × 6 = 30; (30 × 2) + 1 = 61 = 61

Hence, “(5, 61, 6)” is the correct answer.

Alternate Logic:

(4, 41, 5)

Pattern observed here is $4^2 + 5^2 = 41$

t is only for Option (4) that this logic is getting followed, i.e. for (5, 61, 6):

$5^2 + 6^2 = 61$

Q42. Answer: (b) 8 : 68

The pattern followed here is:

12 : 102 → 12 × 8 = 96 and 96 + (12 ÷ 2) = 96 + 6 = 102

Let's check each option:

1) 6 :52 → 6 × 8 = 48 and 48 + (6 ÷ 2) = 48 + 3 = 51 ≠ 52

2) 8 : 68 → 8 × 8 = 64 and 64 + (8 ÷ 2) = 64 + 4 = 68 = 68

3) 16 : 218 → 16 × 8 = 128 and 128 + (16 ÷ 2) = 128 + 8 = 136 ≠ 218

4) 14 : 126 → 14 × 8 = 112 and 112 + (14 ÷ 2) = 112 + 7 = 119 ≠ 126

Hence, “8 : 68” is the correct answer.

Q43. Answer: (c) RQGBCALY

The pattern followed here is:

Similarly,

Hence, “RQGBCALY” is the correct answer.

Q44. Answer: (b) 200

The pattern followed here is as follows:

44 + 11 = 55

145 + 55 = 200

Hence, “200” is the correct answer.

Q45. Answer: (d) mnstnqsn

Given statement: t s m _ _ n q _ _ s m m n _ _ s t _ m m n _ q s

Option 1	**t**	**s**	**m**	**m**	**m**	**n**	**q**	**s**	**t**	**s**	**m**	**m**	**n**	**m**	**q**	**s**	**t**	**t**	**m**	**m**	**n**	**n**	**q**	**s**
Option 2	t	s	m	m	n	n	q	s	t	s	m	m	n	n	q	s	t	m	m	m	n	n	q	s
Option 3	t	s	m	n	m	n	q	s	t	s	m	m	n	n	q	s	t	n	m	m	n	s	q	s
Option 4	t	s	m	m	n	n	q	s	t	s	m	m	n	n	q	s	t	s	m	m	n	n	q	s

Option 4 is following a pattern: tsmmnnqs / tsmmnnqs / tsmmnnqs

Hence, “mnstnqsn” is the correct answer.

Q46. Answer: (a) [figure]

When unfolded, transparent sheet would appear like the figure given below:

Hence, Option 1 given in the figure is the correct answer.

Q47. Answer: (c) 171

Here, 193, 191, and173 are prime numbers.

But, 171 = 19 × 9. Thus, 171 is a composite number.

Hence, 171 is the odd one among the given options.

Q48. Answer: (c) [figure]

The question figure is embedded in the below figure:

Hence, the figure in option 3 is the correct answer.

Q49. Answer: (a) [figure]

The mirror image of the question figure is as follows:

Hence, “the figure in option 1” is the correct answer.

Q50. Answer: (d) Respiration

The pattern followed here is:

Blood circulation is the function of heart

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Similarly,
Respiration is a function of the lungs.
Hence, “Respiration” is the correct answer.

Q51. Answer: (c) 616.67

Calculation:
The average number of students from school B = (550 + 820 + 600 + 750 + 500 + 480)/6
= 616.66

Q52. Answer: (a) 48.84%

Calculation:
Area of triangle = (1/2) × base × height
Increment in area = + 22% + 22% + (22 × 22)%/100
= 48.84%
Therefore the area will increase by 48.84%

Q53. Answer: (a) 2

Given:
cos x = -1/2 and π < x < 3π/2,
Calculation:
cos x = -1/2
=> cosx = - cosπ/3
=> cosx = cos(π + π/3)
=> cosx = cos4π/3
=> x = 4π/3
$2\tan^2 x - 3\operatorname{cosec}^2 x$
=> 2 × 3 - 3 × 4/3 = 6 - 4 = 2

Q54. Answer: (b) 20.42%

Calculation:
The cost price of the vehicle = 489828
The selling price of the vehicle = 589828
Profit percentage = 100 × (589828 – 489828)/489828
= 10000000/489828
= 20.42%

Q55. Answer: (a) 80

Calculation:
Marks of A = Marks of B + 8
According to the Question,
A = (A + B) × 55/100
=> A – 11A/20 = 11B/20
=> 9A/20 = 11B/20
=> A/B = 11/9 = 11 : 9
2 unit = 8
=> 20 unit = 80
Sum of marks obtained by A and B = 80

Q56. Answer: (d) 35

Calculation:
Let the 1^(st) number be 3x and the 2^(nd) number be 4x.
According to the question,
(3x + 30)/(4x + 30) = 9/10
=> 30 = 6x

=> x = 5

Sum of numbers = 3x + 4x = 7x = 7 × 5 = 35

Q57. Answer: (d) 34400

Calculation:

Let the salary of A be x.

Salary of B = 43000 – x

Saving of A = 100 – 95 = 5%

Saving of B = 100 – 80 = 20%

According to the question,

x × 0.05 = (43000 – x) × 0.2

=> 0.25x = 8600

=> x = 34400

Q58. Answer: (b) 2012

Calculation:

Difference between the numbers of students in the year 2010 = 600 – 500 = 100

Difference between the numbers of students in the year 2011 = 750 – 700 = 50

Difference between the numbers of students in the year 2012 = 900 – 500 = 400

Difference between the numbers of students in the year 2013 = 750 – 480 = 270

Therefore The absolute difference between the numbers of students in the two schools is the highest in year 2012.

Q59. Answer: (b) 42

Calculation:

For divisible, by 88 it will be divisible by 11 and 8.

=> 3 + x + 5 + y = 0 + 5 + 8 + 2

=> x + y = 7

=> 6(x + y) = 42

=> (6x + 6y) = 42

Q60. Answer: (b) 6 cm

Given:

Radius of bigger circle = 5 cm

Radius of smaller circle = 3 cm

Distance between the centre = 10 cm

Formula Used:

Length of transverse common tangent = $\sqrt{(d^2-(R+r)^2)}$

Calculation:

Length of transverse common tangent

=> $\sqrt{(10^2-(5+3)^2)}$

=> $\sqrt{(10^2-8^2)}$

=> $\sqrt{(100-64)}$

=> $\sqrt{36}$ = 6 cm

Therefore The correct answer is Option (2).

Q61. Answer: (c) 175

Calculation:

The ratio between the speeds of two trains = 2 : 5

Speed of 1^(st) train = 350/5 = 70 km/hr

Speed of 2^(nd) train = 70 × 5/2

= 175 km/hr

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Q62. Answer: (a) 145°

Calculation:

By the bisector theorem,

angle BOC = angle A/2 + 90°

=> angle BOC = 110/2 + 90

Therefore angle BOC = 145°

Q63. Answer: (a) 9

Calculation:

AC = AB + 1

BC = 2AB – 3

Perimeter of triangle = 34 cm

=> AB + BC + AC = 34 cm

=> AB + 2AB – 3 + AB + 1 = 34

=> AB = 36/4 = 9 cm

=> AC = 9 + 1 = 10 cm

=> BC = 2 × 9 – 3 = 15 cm

Smallest side of triangle = AB = 9 cm

Q64. Answer: (a) 14000

Calculation:

Ratio of time of A and B = 15 : 10 = 3 : 2

The ratio of efficiency of A and B = 2 : 3

Share of A = 35000 × 2/5 = 14000

Q65. Answer: (b) 16

Concept used:

A Pythagorean triple is a triple of positive integers a, b, and c such that a right-angle triangle exists with legs a, b, and hypotenuse c. By the Pythagorean theorem $a^2 + b^2 = c^2$

The smallest and best-known Pythagorean triple is (a, b, c) = (3, 4, 5).

Calculations:

By option 2, put the value of x.

3^(x^(1/4)) + 4^(x^(1/4)) = 5^(x^(1/4))

=> $3^2 + 4^2 = 5^2$

=> 25 = 25

So value of x = 16

The above expression has power on x i.e. x^(1/4), Do not mistake it as x × 1/4,

Put x = 16, 16^(1/4) = 2

by Putting x = 8, 8^(1/4) is not equal to 2

Q66. Answer: (d) 23.46% profit

Calculation:

Cost price of dealer = 20000 × (80/100) × (95/100) + 1000 = 16200

Selling price = 20000

Profit percentage = (20000 – 16200)/16200 × 100

= 23.45% profit

Q67. Answer: (b) 52

Calculation:

x = 2 + √3

then, 1/x = 2 - √3

x + 1/x = 2 + √3 + 2 -√3 = 4

$x^3 + 1/x^3 = 4^3 - 3 \times 4 = 52$

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Q68. Answer: (a) 2009

Calculation:

The percentage increase in students in school B is the highest in comparison to its previous year in the year 2009

= (820 – 550)/550 × 100

= 49.09

Q69. Answer: (d) 2/3

cCalculation:

osecθ = 3x

=> x = cosecθ/3 ----(1)

cotθ =3/x

=> x =3/cotθ ----(2)

From equation (1) and (2)

=> cosecθ/3 = 3/cotθ

Now,

6(x2-1/x2) = 6[(cosecθ/3)² - (cotθ/3)²]

=> 6[cosec²θ - cot²θ]/9 = 2/3

Q70. Answer: (c) 370 : 429

Calculation:

Total number of student in class A for all years = 640 + 800 + 500 + 700 + 900 + 750 = 4290

Total number of student in class B for all years = 550 + 820 + 600 + 750 + 500 + 480 = 3700

The ratio of students taken for all years together from School B to that from school A = 370 : 429

Q71. Answer: (d) 54

Calculation:

Average = sum of all terms/total number of terms

The average age of 15 persons = 32

Sum of age of 15 persons = 32 × 15 = 480

The average age of 17 persons = 32 + 3 = 35

Sum of age of 15 persons = 35 × 17 = 595

Sum of age of 2 new persons = 595 – 480 = 115

Difference of 2 new persons = 7

Age of youngest person = (115 – 7)/2 = 54

Q72. Answer: (d) 4

Given:

$x^2 + y^2 = a^2$ (Biggest)

$x^2 + y^2 = b^2$

$x^2 + y^2 = c^2$ (Smallest)

are three circles of radius a, b, c.

According to the figure.

OC = c

OB = b

OA = a

OD = b

In triangle OAD,

AD = √(OA² - OD²) = √(a² - b²)

In triangle OCD,

AD = √(OD2 - OC2) = √(b2 - c2)

In triangle ACD,

AD² = AC² + CD²

a2 - b2 = a² + c² - 2ac + b² - c²

• $b^2 = -2ac + b2$

• $2b^2 = -2ac$

b2 = ac

On comparing with b^p = a^mc^n

We get,

P = 2, m = 1, n = 1

So, required value of 2m + n + 2p - 3

= 2 × 1 + 1 + 2 × 2 - 3

= 4

Q73. Answer: (a) 19/8

Given:

((31/5 + 3/5) ÷ 8/5)/(11/7 ÷ {5/7 + (1/7 ÷ 1/3)})

Concept used:

Calculation:

((31/5 + 3/5) ÷ 8/5)/(11/7 ÷ {5/7 + (1/7 ÷ 1/3)})

=> {(16/5 + 3/5) ÷ 8/5}/(8/7) ÷ (5/7 + 3/7)

=> (19/5 ÷ 8/5)/(8/7 ÷ 8/7)

=> (19/5)× 5/8

=> 19/8

Therefore The answer is 19/8.

Q74. Answer: (a) 1

Calculation:

If $a^3 + b^3 + c^3 = 3abc$ then a + b + c = 0

=> x – 8 + 2x + 16 + 2x – 13 = 0

=> 5x = 5

=> x = 1

Q75. Answer: (b) 1

Calculation:

$2(\text{cosec}^2 39° - \tan^2 51°) - 2/3(\sin 90°) – \tan^2 56° \text{ y } \tan^2 34° = y/3$

=> $2(\sec^2 51° - \tan^2 51°) – 2/3 – y = y/3$

=> $2(\sec^2 51° – \sin^2 51°/\cos^2 51°) – 2/3 = 4y/3$

=> 2 – 2/3 = 4y/3

=> y = 4/3 × ¾ = 1

Q76. Answer: (b) 368

The correct answer is option 2) i.e. 368.

• India won 368 medals at the Special Olympics World Summer Games.

• The Indian team comprising 284 athletes clinched 85 gold, 154 silver and 129 bronze medals at the Special Olympics World Summer Games.

• The eight-day Games had a colorful closing ceremony at the Zayed Sports City Stadium, Abu Dhabi.

Q77. Answer: (c) Shakti

The correct answer is option 3) i.e. Shakti.

Key Points

• Indian and French troops conduct their Joint-Military exercise 'SHAKTI' annually.

• The counter-terrorism and counter-insurgency joint exercise "SHAKTI 2016" was held in Rajasthan in July 2018.

• The joint exercise will undergo a training schedule aimed at combating conditioning, infantry tactical operations in a counter-terrorism environment and planning of joint operations under the United Nations mandate.

Additional Information

Partner Nation	Exercise Name	Description

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India and France	Garuda	• It was organized by the French Air Force (FAF) from July 1 to 12, 19 in Mont-de-Marsan France, and was successfully completed. - It promotes closer links between India and France to promote interoperability through the exchange of knowledge and experiences.
India and France	Shakti	• The exercise aims to improve understanding, cooperation, and interoperability between the two militaries. - The exercise will focus on counterterrorism operations in semi-desert terrain under a United Nations mandate.
USA and India	Yudh Abhyas	• Annual Combat Excercise started in 2004,16th edition held in Rajasthan in 2021.
USA and India	Vajra Prahar	• Special Forces of India and the USA conducted the joint military exercise Vajra Prahar 2021 in Himachal Pradesh.

Q78. Answer: (b) Dharmapala

The correct answer is option 2) i.e. Dharmapala.

• Vikramshila is an ancient site located 40 km away from the Bhagalpur city of Bihar.

• The small town is famous for housing Vikramshila University, which was built under the guidance of Dharmapala, a Pala king of 8th century AD.

• Situated on top of the hills along the banks of river Ganges, the university became a learning center of Tantric Buddhism.

• Over the years, Vikramshila became one of the most popular Buddhist destinations in India and a major tourist spot in Bihar.

Q79. Answer: (d) ARPANET

The correct answer is ARPANET.

• ARPANET was the network that became the basis for the Internet.

• In 1967, ARPANET was developed under the direction of the U.S. Advanced Research Projects Agency (ARPA).

• In 1969, the idea became a reality with the interconnection of four university computers.

• ARPANET took advantage of the new idea of sending information in small units called packets that could be routed on different paths and reconstructed at their destination.

• The development of the TCP/IP protocols in the 1970s made it possible to expand the size of the network, which now had become a network of networks.

Additional Information

• HTTP - Hypertext Transfer Protocol.

• SSID - Service Set IDentifier

Q80. Answer: (d) Cricket

The correct answer is option 4) i.e. Cricket.

• Narender Hirwani took 16 wickets in his Test debut.

• He grabbed 8 in each innings against West Indies in 1988 and helped India crush them by 255 runs.

• On 3 September 2014, Narendra Hirwani was appointed as the chairman of Ranji Trophy Tournament Selection Committee of the Madhya Pradesh Cricket Association.

Q81. Answer: (c) Silvassa

The correct answer is option 3) Silvassa.

• Principal Languages - Gujarati, Hindi

• The Portuguese ruled this territory until its liberation by the people on 2 August, 1954.

• From 1954 till 1961, the territory functioned almost independently by what was known as "Free Dadra and Nagar Haveli Administration".

• However, the territory was merged with the Indian Union on 11 August, 1961, and since then, is being administered by the Government of India as a Union Territory.

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• The UT of Dadra and Nagar Haveli has an area of 491 sq km, and it is surrounded by Gujarat and Maharashtra.

• It consists of two pockets namely, Dadra and Nagar Haveli.

• The nearest railway station is at Vapi, which is 18 km from Silvassa.

Q82. Answer: (b) Electrons

The correct answer is option 2 i.e. Electrons.

• The atom has a very basic structure in which the central part is made up of positively charged particles called protons neutrally charged particles called neutrons.

• The central part of the atom which consists of both the protons and the neutrons are called the Nucleus.

• The electrons are scattered around the nucleus of an atom and revolve around it in a fixed path or orbit. The electrons of an atom are negatively charged particles.

• The charge of an electron and proton is similar in value but opposite in charges.

Note:

• Discoveries:

• Proton - E. Goldstein

• Neutron-Sir James Chadwick

• Electron - J J Thomson

Q83. Answer: (a) Yen

The correct answer is option 1) i.e. Yen.

• The yen is the legal tender in Japan

• 1 Yen = 0.66 Indian Rupee.

• The yuan (or renminbi) is the currency of China since 1949.

Q84. Answer: (d) Neon

The correct answer is option 4) i.e. Neon.

• Neon makes up a fraction of the air we breathe.

• Purifying it is simple and inexpensive.

• It’s is the most common gas used for signs, giving off a strong orange glow.

• Only small amounts of the gas are needed to make a neon sign.

• While the sign fixtures use high voltages, their power consumption is very low, in the milliwatts, making them energy-efficient.

Q85. Answer: (d) Boat Racing

The correct answer is option 4) i.e. Boat Racing.

• 'Cox' is short for 'coxswain'. In Middle English, a 'cok' was a small boat, while a 'swain' meant a servant.

• The title can be used to describe anyone in charge of navigation and steering on a boat, duties which a cox in boat racing must also perform.

• Other terms in boat racing - Starboard, Stern, Helm, Kneel etc.

Q86. Answer: (c) Gross Domestic Product

The correct answer is option 3) i.e. Gross Domestic Product.

• Gross Domestic Product or GDP the total market value of all the products and services in the economy that are produced within a specific period (usually a year). The formula for GDP is as follows:

• GDP = C + G + I + NX

where

C is private consumption in the economy

G is the total government spending

I is the total investment in the economy

NX is the net value of exports and imports.

Note:

• Net Domestic Product or NDP refers to gross domestic product (GDP) minus depreciation

• N D P = G D P - Depreciation

• Gross National Product is the total market value of all final goods and services produced by the factors of production of a country or other polity during a given time period.

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• Net national product (NNP) refers to gross national product (GNP) minus depreciation

• N N P = G N P – Depreciation

Q87. Answer: (c) Assam

The correct answer is option 3) i.e. Assam.

• The 'i-help' initiative to promote digital electoral literacy in Assam was launched in March 2019.

• The 'i-help' is a joint initiative of the Office of the Chief Electoral Officer(CEO) and Common Service Centres (CSC) in Assam.

• Chief Electoral Officer Mukesh Chandra Sahu launched the 'i-help' initiative.

Q88. Answer: (d) Four

The correct answer is option 4) i.e. Four.

• The Bhutan–India border is the international border separating Bhutan and India.

• The border is 699 km long, and adjoins the Indian states of Assam (267 km), Arunachal Pradesh (217 km), West Bengal (183 km), and Sikkim(32 km).

• India has 15,106.7 Km of land border and a coastline of 7,516.6 Km including island territories.

• The length of our land borders with neighbouring countries is as under:

Bangladesh - 4096.7, China - 3488, Pakistan - 3323, Nepal - 1751, Myanmar -1643, Bhutan - 699, Afghanistan -106.

Q89. Answer: (a) Himachal Pradesh

The correct answer is option 1) i.e. Himachal Pradhesh.

• The former summer capital of the princely state of Patiala, Chail is a beautiful hill station located 63 km from Shimla in the Shivalik region of Himachal Pradesh.

• Chail is spread across three hillocks — Rajgarh, Pandewa and Sadh Tiba, covering an area of over 72 acres.

• Overlooking the valley of Sutlej, it enjoys a pleasant climate throughout the year.

• Chail also offers magnificent and panoramic views of the surrounding countryside and overlooks both, Kasauli and Shimla (45 km).

Q90. Answer: (d) Speaker

The correct answer is option 4) i.e. Speaker.

• The conditions governing the admissibility of questions have been laid down under Rule 41 to 44 of the Rules of Procedure and Conduct of Business in Lok Sabha.

• Questions relating to statutory corporations and limited companies in which Government have a financial or controlling interest are examined on merits and their admissibility is regulated generally in the following manner:

(i) where a question relates to a matter of policy or refers to an act or omission on the part of a Minister or raises a matter of public interest, although it may pertain to a matter of day-to-day administration or an individual case, it is ordinarily admitted.

(ii) a question which calls for information of statistical or descriptive nature is generally admitted as Unstarred

(iii) a question that clearly relates to day-to-day administration and tends to throw work on the Ministries and the Corporation not commensurate with the results to achieved therefrom is normally disallowed.

Q91. Answer: (c) C

The correct answer is option 3) i.e. (C) the Narmada.

• Amarkantak is the place from where the Narmada river originates.

• It rises from the Maikal ranges at the height of 1057 meter above the sea level.

• Amarkantak is located in the Shahdol district of Madhya Pradesh in India.

• Narmada river mainly flows in central India. The total length of the Narmada river lies approximately 1,289 km.

• The river flows from the eastward direction to the westward into the Arabian sea.

• It merges into the ocean at the point called 'Bharonch'.

• It is the largest west flowing river in India.

Q92. Answer: (b) Mumbai

The correct answer is option 2) i.e. Mumbai.

• India's first HIV treatment centre and clinic for the lesbian, gay, bisexual, transgender and queer (LGBTQ) community has been inaugurated in Mumbai, Maharashtra.

• Based out of the Humsafar Trust’s office in Mumbai, the centre will give free counselling and provide Anti-Retroviral Therapy (ART) to the LGBTQ community.

• ART is the use of HIV medicines to treat the infection and delays the progression of the disease.

Q93. Answer: (b) Jhumpa Lahiri

The correct answer is option 2) i.e. Jhumpa Lahiri.

• Jhumpa Lahiri was born in London to Bengali non citizen parents in 1967.

• In 1998, The New Yorker magazine published "A Temporary Matter," one of the stories that would appear in her first collection, Interpreter of Maladies.

• In 2000, the collection won the PEN/Hemingway Award for the year's best fiction debut and was awarded the Pulitzer Prize for Fiction.

• She is the first Indian-American woman to receive this award.

• In 2003, she published The Namesake, a novel, and followed that in 2008 with a second collection of short stories, Unaccustomed Earth. Next, she wrote The Lowland (2013) and a memoir—written in Italian—In Other Words (2016).

Q94. Answer: (d) Ardour

The correct answer is option 4) i.e. Ardour.

• Ardour is a hard disk recorder and digital audio workstation application that runs on Linux, macOS, and Microsoft Windows. Its primary author is Paul Davis.

• Blender, Avidemux, and Dscaler are Softwares related to Video Editing & Mixing.

Q95. Answer: (a) Mihir Bhoja

The correct answer is option 1) i.e. Mihir Bhoja.

• The greatest ruler of the Pratihara dynasty was Mihir Bhoja.

• He recovered Kanauj (Kanyakubja) by 836, and it remained the capital of the Pratiharas for almost a century.

• He built the city Bhopal (Bhopal).

• Note:

• Raja Bhoja and other valiant Gujara kings faced and defeated many attacks of the Arabs from the west.

• Between 915-918 A.D, Kanauj was attacked by a Rashtrakuta king, who devastated the city leading to the weakening of the Pratihara Empire.

• In 1018, Kannauj then ruled by Rajyapala Pratihara was sacked by Mahmud of Ghazni.

• The empire broke into independent Rajput states.

Q96. Answer: (b) 13^(th) May 1952

The correct answer is option 2) i.e. 173h May 1952

• The First Lok Sabha was constituted on 17 April 1952 after India's first general election.

• First Session of this Lok Sabha commenced on 13 May 1952.

• The 1st Lok Sabha lasted its full tenure of five years and was dissolved on 4 April 1957.

• First Lok Sabha period - 13 April 1952- 4 April 1957

• Speaker - Shri G.V. Mavalankar

• Deputy Speaker - Shri M.A.Ayyangar

• Secretary-General - Shri M. N.Kaul

Q97. Answer: (a) Adil Hussain

The correct answer is option 1) i.e. Adil Hussain.

• Adil Hussain became the first Indian to win Best Actor at the Norwegian National Awards in Haugesund for his film 'What Will People Say'.

• The film has already won the Kanon Award at Kosmorama film festival, which is Norway's equivalent of the Academy Awards.

• Adil Hussain is from Goalpara district of Assam.

• The film is directed by Norwegian born filmmaker Iram Haq has also won the best film, best director and best script award which is regarded as Norwegian national film awards.

• This film is about immigrants and their rigid value system. It also speaks volume about the degree and intensity of democracy and inclusiveness of the democracy that Norway practices.

Q98. Answer: (b) corrosion

The correct answer is option 2) i.e. Corrosion.

Key Points

• Rust is the common name for iron oxide.

• The most familiar form of rust is the reddish coating that forms flakes on iron and steel (Fe2O3), but rust also comes in other

colours, including yellow, brown, orange, and green. The different colours reflect various chemical compositions of rust.

• Rust requires three chemicals to form. They are iron, oxygen, and water.

• The chemical reaction is :

• There is an anodic dissolution or oxidation of iron going into aqueous (water) solution:

• 2Fe → 2Fe^(2+) + 4e^-

• Cathodic reduction of oxygen that is dissolved into the water also occurs:

• O2 + 2H2O + 4e^- → 4OH^-

• The iron ion and the hydroxide ion react to form iron hydroxide:

• 2Fe^(2+)+ 4OH^- → 2Fe(OH)2

• The iron oxide reacts with oxygen to yield red rust, Fe2O3.H2O.

Q99. Answer: (c) Odisha

The correct answer is option 3) i.e. Odisha.

• Pattachitra style of painting is one of the oldest and most popular art forms of Odisha.

• The name Pattachitra has evolved from the Sanskrit words patta, meaning canvas, and chitra, meaning picture.

• Pattachitra is thus a painting done on canvas, and is manifested by rich colourful application, creative motifs and designs, and portrayal of simple themes, mostly mythological in depiction.

• Some of the popular themes represented through this art form are Thia Badhia - depiction of the temple of Jagannath; Krishna Lila - enactment of Jagannath as Lord Krishna displaying his powers as a child; Dasabatara Patti - the ten incarnations of Lord Vishnu; Panchamukhi - depiction of Lord Ganesh as a five-headed deity.

Q100. Answer: (d) Maharashtra

The correct answer is option 4) i.e. Maharashtra.

• Maharashtra is known for its Warli folk paintings.

• Warli is the name of the largest tribe found on the northern outskirts of Mumbai, in Western India.

• Despite being in such close proximity of the largest metropolis in India, Warli tribesmen shun all influences of modern urbanization.

• Warli Art was first discovered in the early seventies. While there are no records of the exact origins of this art, its roots may be traced to as early as the 10th century A.D.

• Warli is the vivid expression of daily and social events of the Warli tribe of Maharashtra, used by them to embellish the walls of village houses.

• This was the only means of transmitting folklore to a populace not acquainted with the written word. This art form is simple in comparison to the vibrant paintings of Madhubani.

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