SSC CHSL Previous Paper 26 (Held On: 19 Oct 2020 Shift 1) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2020 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

Over the past 20 years, there has been a constant decline in the variety of vegetables that we eat because the native varieties are no longer available.

(a) No improvement
(b) is being
(c) was been
(d) had been

Q2. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

A. You've probably noticed, with great disappointment, that the battery doesn't seem to last as long as it did when it was brand new.

B. Partial charging is just fine for lithium-ion batteries and can actually have some positive benefits for cell longevity.

C. Smartphone users are forever in search of longer battery life, but unfortunately, battery capacity inevitably declines with age.

D. However, one thing you can do to prolong the life of your battery and handset is partial charging.

(a) CDAB
(b) CADB
(c) ACDB
(d) BADC

Q3. Select the most appropriate ANTONYM of the given word.

BENEVOLENT

(a) Generous
(b) Friendly
(c) Stingy
(d) Liberal

Q4. Select the most appropriate meaning of the given idiom.

Call a spade a spade

(a) Lash out unkindly at someone for no reason
(b) Say things that are untrue and painful
(c) Plan to attack someone with rude words
(d) Say the truth about something, even if it is not pleasant

Directions

Direction: 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.

At the age of 94, Harbhajan makes barfi only on order and people come to collect the freshly made barfi at her (1)____. The most remarkable thing is, she manages everything (2)__ her own, from roasting the gram flour to cutting the (3)__ shaped barfis. She believes that it is better to wear out than to rust out. Due to her hard work, she received the best (4)__ when she was named 'entrepreneur of the year'. This 94-year-old woman (5)____ that it's never too late to do a start-up.

Q5. Select the most appropriate option for blank number 5.

(a) has proved
(b) was proved
(c) had been proving
(d) is proved

Q6. Select the most appropriate option for blank number 4.

(a) charm
(b) gratefulness
(c) content
(d) appreciation

Q7. Select the most appropriate option for blank number 3.

(a) perfectly
(b) hardly
(c) truly
(d) happily

Q8. Select the most appropriate option for blank number 2.

(a) with
(b) on
(c) for
(d) to

Q9. Select the most appropriate option for blank number 1.

(a) residing
(b) residential
(c) resident
(d) residence

Q10. Select the appropriate synonym of the given word.

TIMID

(a) Willful
(b) Shy
(c) Kind
(d) Strong

Q11. In the given sentence, Identify the segment which contains a grammatical error.

The country has to struggled with the problems of child labour.

(a) the problems of
(b) the country has
(c) child labour
(d) to struggled with

Q12. Given below are four jumbled sentences. Out of the given options, pick the one that gives their correct order.

A. So, what exactly are we eating?

B. They found that the vegetables contained very high, toxic levels of banned pesticides and the pesticide levels were more than 1000 times the permissible levels.

C. And is our food giving rise to the many health problems today?

D. A survey conducted by the Food Safety and Standards Authority of India under the Union Agriculture Ministry

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tested random samples of vegetables in markets all over India.

(a) ADCB
(b) DBAC
(c) ACBD
(d) DACB

Q13. In the given sentence, identify the segment which contains a grammatical error.

The Indian cricket team was done very well this year and is ranked number one now.

(a) The Indian cricket team
(b) and is ranked number one now
(c) this year
(d) was done very well

Q14. Select the most appropriate word to fill in the blank.

We found it _____ to climb further due to bad weather and decided to give up the expedition.

(a) exciting
(b) boring
(c) pleasant
(d) impossible

Q15. Select the word which means the same as the same group of words given.

Repetition of an initial sound in two or more words of a line

(a) Rhyme
(b) Rhythm
(c) Alliteration
(d) Assonance

Q16. Select the INCORRECTLY spelt word.

(a) Unsurpassable
(b) Inadvertent
(c) Equivalent
(d) Imigration

Q17. Select the correct indirect form of the given sentence.

Ravina asked her little brother, "Where are you going to play?"

(a) Ravina asked her little brother where he would like to go to play
(b) Ravina said to her little brother where he was going to play
(c) Ravina asked her little brother where he will he be going to play
(d) Ravina asked her little brother where he was going to play

Q18. Select the most appropriate meaning of the given idiom:

Be behind the times

(a) Not be alert
(b) Always dreaming
(c) Be old-fashioned
(d) Be very old

Q19. Select the word which means the same as the group of words given.

One who examines accounts officially

(a) Aviator
(b) Collector
(c) Radiator
(d) Auditor

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Q20. Select the correct passive form of the given sentence.

They are laying new telephone cables in our colony.

(a) New telephone cables were being laid in our colony.
(b) New telephone cables are being laid in our colony.
(c) New telephone cables were laid in our colony.
(d) New telephone cables will be laid in our colony.

Q21. Select the INCORRECTLY spelt word

(a) Heavenly
(b) Advisable
(c) Harass
(d) Disposeable

Q22. Select the most appropriate ANTONYM of the given word.

CONSPICUOUS

(a) Distinct
(b) Obscure
(c) Noticeable
(d) Apparent

Q23. Select the most appropriate word to fill in the blank.

In _____ of the great work he is doing for economically weaker children, he has been given a special award.

(a) reward
(b) resolution
(c) recognition
(d) award

Q24. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement'.

Swami Vivekanand's vast knowledge of Eastern and Western culture appealed to all those who come in contacts with him.

(a) No improvement
(b) which contacted
(c) that comes to contact
(d) who came in contact

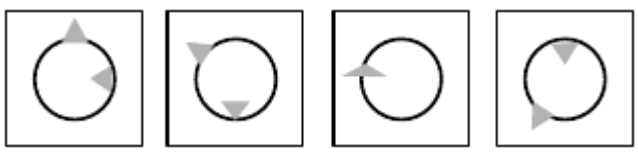
Q25. Select the most appropriate synonym of the given word.

REMORSE

(a) Affection
(b) Indifference
(c) Regret
(d) Reproach

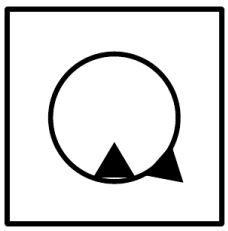
GENERAL INTELLIGENCE

Q26. Select the option figure that will come next in the following series.

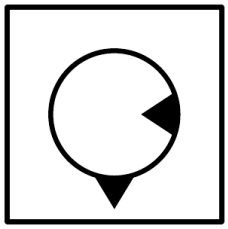


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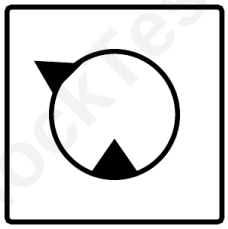
(a)



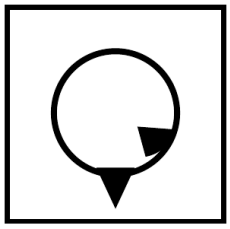
(b)



(c)



(d)

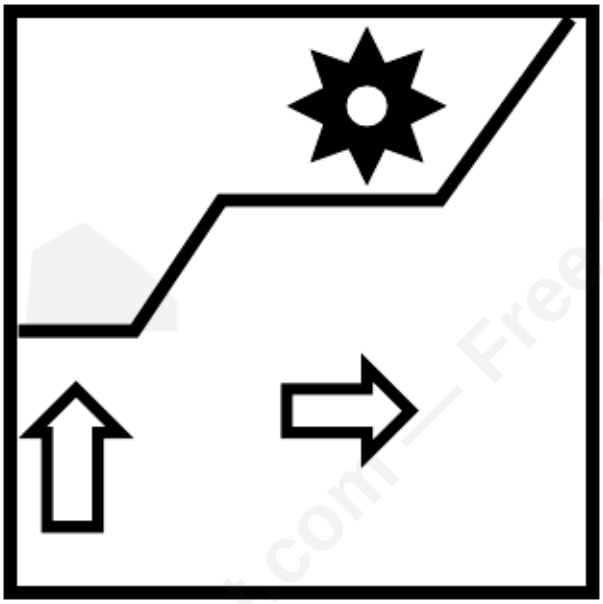


Q27. Four letter - clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter - cluster.

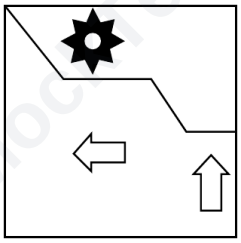
(a) ROLIF
(b) TQNKH
(c) YWUSQ
(d) VSPMJ

Q28. Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.

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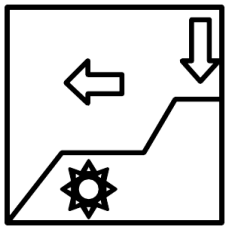
(a)



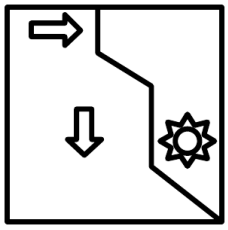
(b)



(c)



(d)

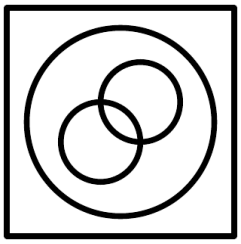


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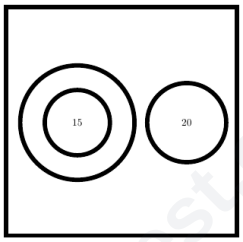
Q29. Select the Venn diagram that best illustrates the relationship between the following classes.

Table, Transistor, Furniture

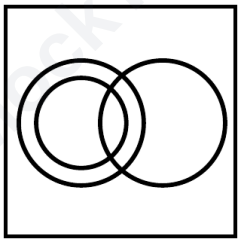
(a)



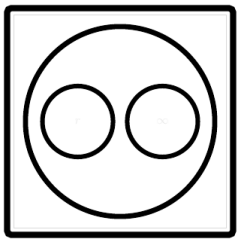
(b)



(c)



(d)



Q30. Select the option in which the words share the same relationship as that shared by the given pair of words.

Stringent : Flexible

(a) Authoritarian : Liberal
(b) Anxious : Depressed
(c) Daring : Venturesome
(d) Responsive : Passionate

Q31. Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

a_cdeacdd_acdeea_ _deac_ _e

(a) ceacce
(b) aaaccd
(c) ceaccd
(d) bbbcbd

Q32. Select the number that can replace the question mark (?) in the given figure series.

33, 53, 61, 85, 97, ?, 141

(a) 113

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(b) 125
(c) 121
(d) 123

Q33. Read the given statements and conclusions carefully. Assuming that the information given in the statement is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

1. Some buses are trucks.

2. All trucks are vans.

Conclusions:

I. Some buses are vans.

II. All vans are buses

(a) Only conclusion I and II follows
(b) Only conclusion I follows
(c) Only conclusion II follows
(d) Either conclusion I or II follows

Q34. 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.

RICH : IRXS : : BOOK : ?

(a) XKKO
(b) YLLP
(c) DQQM
(d) ZLLH

Q35. Select the number that will replace the question mark (?) in the following figure series.

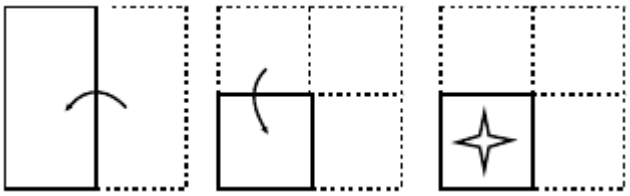
99, 82, 63, 50, 35, ?

(a) 24
(b) 27
(c) 26
(d) 25

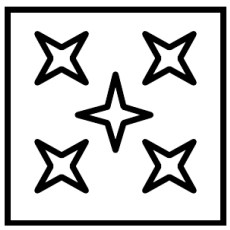
Q36. If '-' means multiplication, '×' means addition, '÷' means subtraction and '+' mean 'division', then which of the following equations is correct?

(a) 8 - 3 ÷ 16 × 36 + 6 = 14
(b) 8 + 3 ÷ 16 × 36 - 6 = 14
(c) 8 ÷ 3 - 16 + 36 × 6 = 14
(d) 8 × 3 ÷ 16 + 36 - 6 = 14

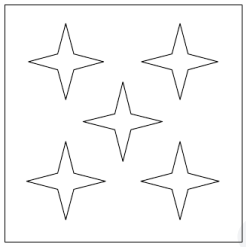
Q37. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



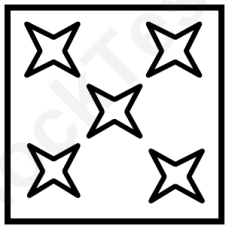
(a)



(b)



(c)



(d)



Q38. In a code language, 'RAMP' is written as '46', and 'HORSE' is written as '63'. How will 'CARPENTER' be coded as in that language?

(a) 98
(b) 100
(c) 96
(d) 102

Q39. Select the option in which the numbers are related in the same way as are the numbers of the following set.

(12, 48, 8)

(a) (19, 57, 15)
(b) (16, 64, 13)
(c) (18, 54, 13)
(d) (15, 45, 12)

Q40. Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

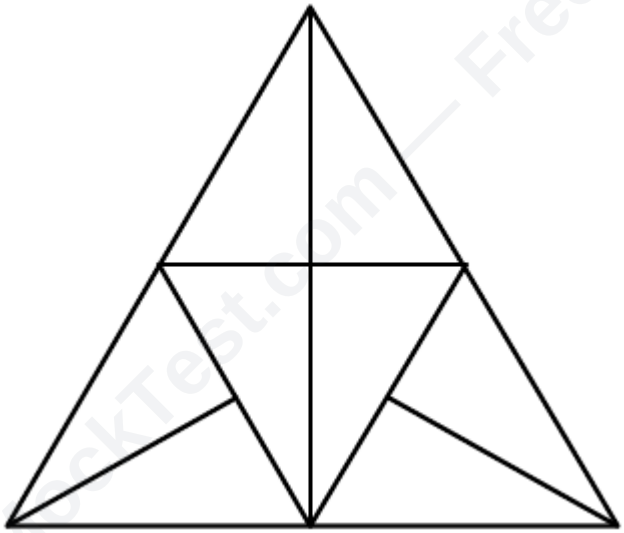
(a) Den
(b) Barrack
(c) Stable
(d) Burrow

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Q41. Select the option in which the numbers are related in the same way as are the numbers of the following set. (25, 20, 16)

(a) (34, 19, 9)
(b) (30, 17, 10)
(c) (32, 16, 8)
(d) (28, 18, 12)

Q42. How many triangles are present in the following figure?



(a) 17
(b) 12
(c) 15
(d) 13

Q43. Arrange the following words in a logical and meaningful order.

1. Throat
2. Bladder
3. Pupil
4. Liver
5. Pinna

(a) 5 - 3 - 1 - 2 - 4
(b) 5 - 3 - 1 - 4 - 2
(c) 3 - 5 - 1 - 4 - 2
(d) 3 - 5 - 1 - 2 - 4

Q44. In a code language, 'THAILAND' is written as 'VFCGNYPB'. How will 'SRILANKA' be written in that language?

(a) UTKNCMMZ
(b) TQJKBPJC
(c) UPKJCLMY
(d) UQKKCMMZ

Q45. Anita is the sister of Babita and Dharmendar is the only brother of Sushma. If Sushma is the sister of Anita, then how is Babita related to Sushma?

(a) Information is incomplete
(b) Sister
(c) Brother
(d) Aunt

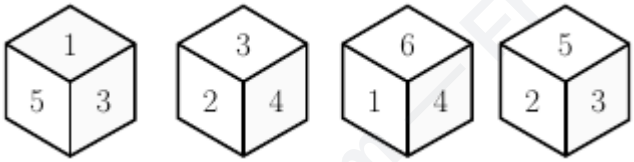
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Q46. Select the option in which the numbers share the same relationship as that shared by the given pair of numbers.

2197 : 1331

(a) 729 : 343
(b) 343 : 125
(c) 1331 : 729
(d) 512 : 216

Q47. Four different positions of the same dice are shown. Select the number that will be on the face opposite to the face having number '1'.



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

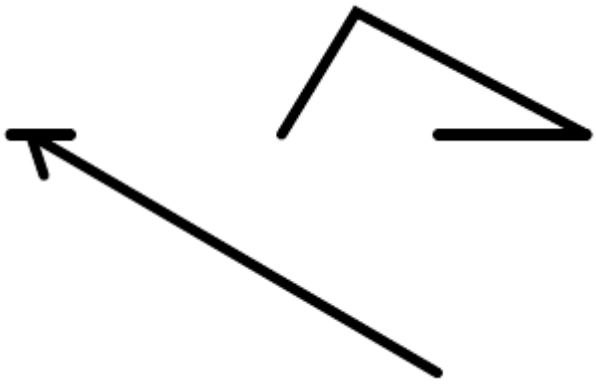
Q48. 'House' is related to 'Foundation' in the same way as 'Tree' is related to '_____'.

(a) Stem
(b) Root
(c) Soil
(d) Branch

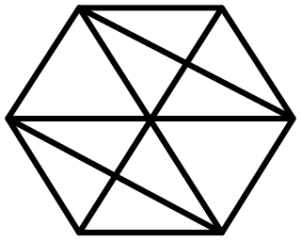
Q49. Raman's age is twice to the age of his daughter Shruti. If ten years ago Raman's age was three times to the age of Shruti, then what is the present age of Shruti?

(a) 12 years
(b) 8 years
(c) 11 years
(d) 20 years

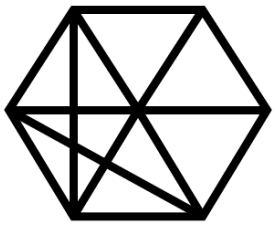
Q50. Select the option in which the given figure is embedded (rotation is NOT allowed).



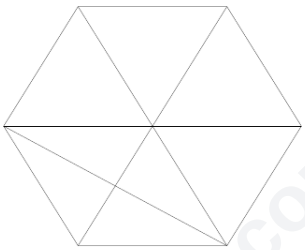
(a)



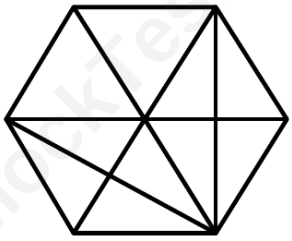
(b)



(c)



(d)



QUANTITATIVE APTITUDE

Q51. The value of tan (63° - θ) - cot (27° + θ) + (cosec²70-tan²20)/(sec²37-cot²53) is:

(a) 0
(b) 3
(c) 2
(d) 1

Q52. If α and β are two roots of the quadratic equation $ax^2 - bx + c = 0$ where a, b, c are constants and $a \neq 0$, then the value of $1/\alpha+1/\beta$ is

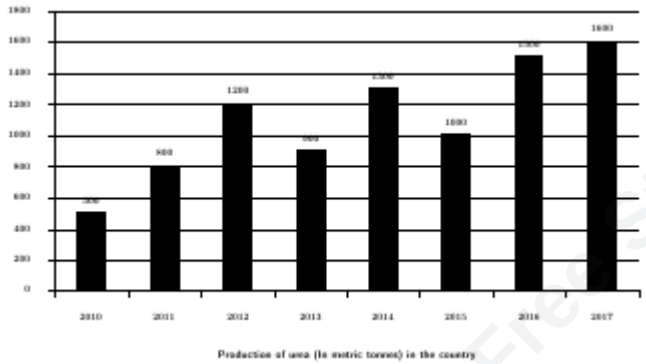
(a) c/b
(b) c/a
(c) (-b)/c
(d) b/c

Q53. The average score of a cricketer for 20 matches is 52 runs. His highest score is more than its lowest score by 120 runs. If these two innings are excluded, the average of the remaining 18 matches is 50 runs. The highest score of the player is:

(a) 130
(b) 125
(c) 120
(d) 140

Q54. Study the given chart carefully and answer the question accordingly.

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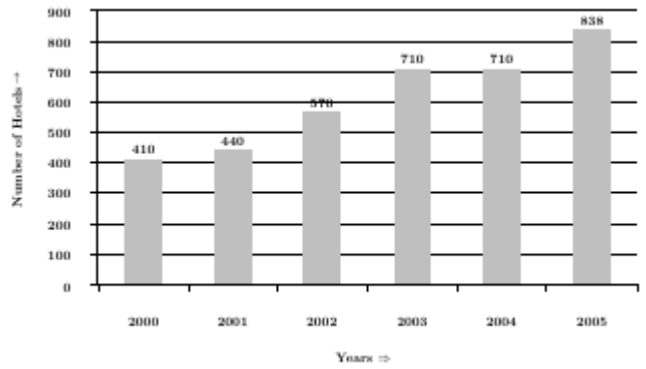
In which of the following years was the percentage increase in production from the previous year, the maximum among the given years?

(a) 2014
(b) 2016
(c) 2012
(d) 2011

Q55. A can complete a task in 18 days while B can complete the same task in 12 days. If both work together for 6 days, and then A leaves. In how many days will B complete the remaining task?

(a) 6 days
(b) 2 days
(c) 3 days
(d) 4 days

Q56. Study the given chart and answer the question.



In which of the given years is the percentage increase in the number of hotels in comparison to the previous year, is the maximum?

(a) 2004
(b) 2003
(c) 2001
(d) 2002

Q57. In triangle ABC, AD, BE and CF are medians and G is the centroid of the triangle. If the area of the triangle DGC is 20 cm^2, then the area of triangle AGF + the area of triangle BGF is equal to:

(a) 40 cm2
(b) 30 cm2
(c) 20 cm2
(d) 25 cm2

Q58. A triangle PQR is right angled at Q. E and F are mid points of QR and PR respectively. What will be the ratio of the area of the quadrilateral PQEF to the area of triangle PQR.

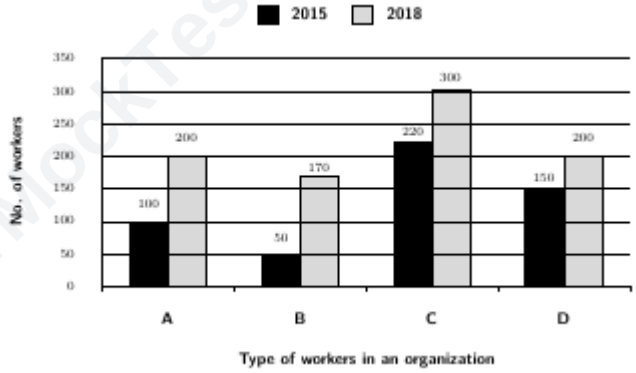
(a) 3/4
(b) 4/3

(c) 2/3
(d) 3/2

Q59. A wire in a shape of a circle of radius 28 cm is bent in the form of a square. What is the difference of their areas? (Take π = 22/7)
(a) 538 cm²
(b) 530 cm2
(c) 532 cm2
(d) 528 cm2

Q60. The marked price of a shirt was Rs. 1,800. A man bought the same shirt for Rs. 1,200 after getting two successive discounts. If the first discount was 12%, what was the second discount rate? (Correct to two decimal place)
(a) 22.22%
(b) 24.24%
(c) 20.20%
(d) 25.25%

Q61. Study the given chart and answer the question.



The percentage increase in the number of workers in 2018 is maximum as compared to that in 2015 in case of workers of type:
(a) C
(b) D
(c) A
(d) B

Q62. How many numbers between 800 to 2000 are divisible by 13?
(a) 90
(b) 92
(c) 93
(d) 91

Q63. If x - (1/x) = 8, find the value of x4 + (1/x)4.
(a) 4355
(b) 4356
(c) 4352
(d) 4354

Q64. What percentage of the numbers from 101 to 1000 have 9 in the unit's digit?
(a) 20%
(b) 15%
(c) 12%
(d) 10%

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Q65. The breadth of rectangular field is two - thirds of it length. If its area is 864 m², then find the cost of fencing it all around at Rs. 15/m

(a) Rs. 2,000
(b) Rs. 1,600
(c) Rs. 1,800
(d) Rs. 2,400

Q66. The percentage profit earned by selling a mobile for Rs. 12,000 is equal to the percentage loss incurred by selling the same mobile for Rs. 9,000. At what price should the mobile be sold to make 20% profit.

(a) Rs. 18,800
(b) Rs. 15,400
(c) Rs. 16,200
(d) Rs. 12,600

Q67. A man travelled a distance of 1200 km in 16 hours. He travelled partly by car at a speed of 40 km/h, and partly by train at a speed of 80 km/h. What is the distance travelled by car?

(a) 96 km
(b) 80 km
(c) 120 km
(d) 100 km

Q68. A person borrowed 1,200 at 8% p.a. and Rs. 1,800 at 10% p.a. as simple interest for the same period. He has to pay Rs. 1,380 in all as interest. Find the time period.

(a) 4 years
(b) 10 years
(c) 6 years
(d) 5 years

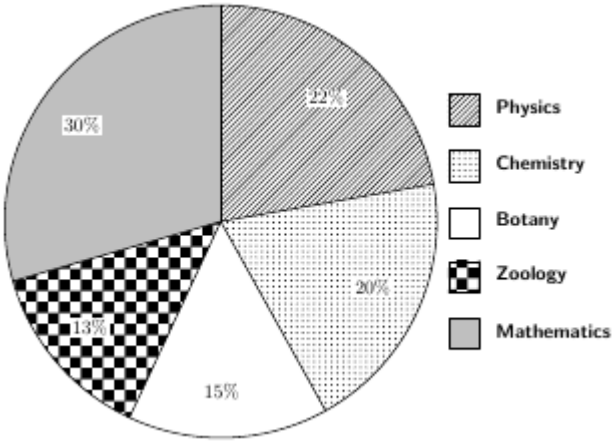
Q69. Simplify the following.

4 4/5 ÷ [2 1/5 - 1/2 [1 1/4-(1/4 - 1/5)]]

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

Q70. Study the given pie - chart and table carefully and answer the question that follows. The percentage wise distribution of lecturers in five different subjects in a university is shown in the pie chart.

The total number of lecturers is 500.



Ratio of male to female lecturers:

Lecturers	Males : Females
Mathematics	7 : 3

Physics	2 : 3
Chemistry	4 : 1
Botany	3 : 5
Zoology	2 : 5

What is the difference in the number of female lecturers in chemistry and Mathematics?

(a) 30
(b) 20
(c) 22
(d) 25

Q71. Evaluate the following.

$((12.5)^3 + (7.5)^3)/((12.5)^2 + (7.5)^2 - 12.5 \times 7.5)$

(a) 25
(b) 30
(c) 20
(d) 15

Q72. By adding 3 and 5 in numerator and denominator of a fraction it becomes 2/3. If 1 and 3 are subtracted and added from numerator and denominator respectively it becomes 2/5 find the fraction.

(a) 6/7
(b) 7/5
(c) 5/7
(d) 7/6

Q73. The radii of two circles are 20 cm and 13 cm, respectively. Find the radius of the circle which has a circumference equal to the sum of the circumferences of the two circles.

(a) 30 cm
(b) 32 cm
(c) 33 cm
(d) 28 cm

Q74. If x = cosecA + cosA and y = cosec A - cosA, then find the value of $(2/(x+y))^2 + ((x-y)/2)^2 - 1$

(a) 2
(b) 1
(c) 3
(d) 0

Q75. Find the smallest positive angle which satisfies the given trigonometric equation. $2\sin^2 x + \sqrt{3}\cos x + 1 = 0$

(a) $(5\pi)/6$
(b) $\pi/6$
(c) $(2\pi)/3$
(d) $\pi/3$

GENERAL AWARENESS

Q76. 'Santosh Trophy' is an award for the winning team of

(a) hockey
(b) basketball
(c) football
(d) volleyball

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Q77. The human saliva contains an enzyme called salivary _____ that breaks down starch, a complex molecule, into sugar.

(a) protease
(b) amylase
(c) lipase
(d) peptidase

Q78. Abhijit Banerji, an India born researcher, was one of the winners of Nobel Prize 2019 for _____.

(a) Peace
(b) Economics
(c) Chemistry
(d) Literature

Q79. _____ is defined as the study of the behavior of individual decision-making units such as consumers, resource-owners, and firms.

(a) Econometrics
(b) Health Economics
(c) Microeconomics
(d) Macroeconomics

Q80. When blue litmus was added to an unknown liquid in a test tube, it turned red. What was the liquid?

(a) An acid
(b) Water
(c) An alkali
(d) Saline

Q81. Which Mauryan ruler became a follower of Buddhism?

(a) Ashoka
(b) Samudragupta
(c) Brihadratha
(d) Chandragupta I

Q82. Which of the following cricketers is NOT a part of the Sri Lankan team?

(a) Tusara Perara
(b) Lasith Malinga
(c) Kedar Jadhav
(d) Angelo Perera

Q83. Identify the unit of measurement of energy.

(a) Volt
(b) Watt
(c) Joule
(d) Ampere

Q84. The script 'Gurumukhi' for Punjabi language was invented by the Sikh guru _____.

(a) Guru Har Kishan
(b) Guru Ramdas
(c) Guru Har Rai
(d) Guru Angad

Q85. Which of the following devices is NOT used to enter data into a computer?

(a) Scanner
(b) Keyboard
(c) Monitor
(d) Mouse

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Q86. Which of the following Public Sector Undertakings does NOT have 'Maharatna' status?

(a) Steel Authority of India Limited
(b) Coal India Limited
(c) GAIL (India) Limited
(d) Engineers India Limited

Q87. The Buddhist sites Vaishali and Nalanda are situated in which of the following states?

(a) Chhattisgarh
(b) Telangana
(c) Odhisha
(d) Bihar

Q88. Who among the following is NOT a lawn tennis champion?

(a) Sania Mirza
(b) Manika Batra
(c) Rohan Bopanna
(d) Leander Paes

Q89. Which of the following is NOT a North East Indian sister state?

(a) Odisha
(b) Tripura
(c) Manipur
(d) Meghalaya

Q90. Which is the correct sequence of rulers of the Mughal Empire?

(a) Babur, Humayun, Aurangzeb, Jhangir, Shahjahan, Bahadur, Shah, Akbar
(b) Babur, Aurangzeb, Humayun, Shahjahan, Bahadur Shah, Akbar
(c) Babur, Humayun, Akbar, Jahangir, Shahjahan, Aurangzeb, Bahadur Shah
(d) Babur, Jahangir, Humayun, Akbar, Bahadur Shah, Shahjahan, Aurangzeb

Q91. India is called a secular country because citizens have the fundamental right to:

(a) freedom of speech and expression
(b) move freely throughout India
(c) freedom to profess religion of one's choice
(d) live with human dignity

Q92. Cirrus and cumulus are types of _____.

(a) soil
(b) mountains
(c) clouds
(d) waves

Q93. 'Behdienkhlam, is a traditional dance festival of which state?

(a) Chhattisgarh
(b) Tamil Nadu
(c) Gujarat
(d) Meghalaya

Q94. What type of depositional topography is formed when water currents flowing from high levels are fragmented into low-sloping terrestrial sloping plains?

(a) Natural embankment
(b) Alluvial fans
(c) Flood Plains
(d) Antiperspirant

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Q95. Who is the author of 'Sabka Saath, Sabka Vikas'?

(a) Sushma Swaraj
(b) Prem Chand
(c) Narendra Modi
(d) Ravi Shankar Prasad

Q96. On which day of the year is the earth farthest from the sun, at a position called aphelion?

(a) 4 July
(b) 23 October
(c) 16 August
(d) 12 May

Q97. Kartarpur Sahib corridor connects Dera Baba Nanak Shrine in Gurdaspur, India to Kartarpur Gurudwara in Pakistan, which is located near the banks of the river _____.

(a) Sutlej
(b) Chenab
(c) Ravi
(d) Jhelum

Q98. Who has been appointed as the 47th Chief Justice of India?

(a) Nilam Sawhney
(b) Sharad Arvind Bobde
(c) Sanjay Karol
(d) Ravi Ranjan

Q99. The President of India can hold office for a term of _____ year/s.

(a) 3
(b) 5
(c) 1
(d) 10

Q100. The 'Bharat Ratna Award 2019' was NOT conferred upon:

(a) Bhupen Hazarika (posthumous)
(b) Nanaji Deshmukh (posthumous)
(c) Medha Patkar
(d) Pranab Mukherjee

ANSWER KEY

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

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SOLUTIONS

Q1. Answer: (a) No improvement

The correct answer is No improvement.

Key Points

• The present perfect tense is a verb tense that shows an action or state that either occurred at an indefinite time in the past or began in the past and continued to the present time.

• The structure is given below:

• Subject + has/have + V3 + object. (active voice)

• Object + has/have + been + V3 + subject. (passive voice)

• Example:

• He has played some matches for the Indian Cricket team. (active voice)

• Some matches have been played by him for the Indian Cricket team. (passive voice)

• In the given sentence, we need to follow the structure in the active voice form.

• Since the given sentence talks about the action that continues till the present time, 'has been' is the most appropriate choice of the verb form in the underlined part.

• Thus we are left with the 1st option as the only correct choice.

Correct Sentence: Over the past 20 years, there has been a constant decline in the variety of vegetables that we eat because the native varieties are no longer available.

Q2. Answer: (b) CADB

The correct answer is CADB.

Key Points

• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:

• Sentence C introduces us to the subject 'the quest for longer battery life'. It is the introductory sentence and will be put in the first place.

• Sentence A tells us about how the battery behaves after using it for a long period of time. It will be put in second place.

• Sentence D tells us about a method to improve battery life. It will be put in third place.

• The last sentence is B as it mentions the particular type i.e. lithium-ion battery.

Thus, the correct order is- Smartphone users are forever in search of longer battery life, but unfortunately, battery capacity inevitably declines with age. You've probably noticed, with great disappointment, that the battery doesn't seem to last as long as it did when it was brand new. However, one thing you can do to prolong the life of your battery and handset is partial charging. Partial charging is just fine for lithium-ion batteries and can actually have some positive benefits for cell longevity.

Q3. Answer: (c) Stingy

The solution is in Hindi. Read it online.

Q4. Answer: (d) Say the truth about something, even if it is not pleasant

The correct answer is Say the truth about something, even if it is not pleasant.

Key Points

• Let's look at the meaning of the given idiom:

• Call a spade a spade- speak plainly without avoiding unpleasant or embarrassing issues

• Example:

• That dress made her look fat, let's call a spade a spade before she goes out wearing it and embarrasses herself.

• **Thus from the explanation given above, we find that the 4th option is the correct choice.

Additional Information

• Let's look at the origin of the idiom:

• The phrase is said to have originated from the slang that was used for African-Americans, which is 'spade'.

• This was used in a derogatory manner in the United States and was popular in the early 20th century.

Q5. Answer: (a) has proved

The solution is in Hindi. Read it online.

Q6. Answer: (d) appreciation

The solution is in Hindi. Read it online.

Q7. Answer: (a) perfectly

The solution is in Hindi. Read it online.

Q8. Answer: (b) on

The solution is in Hindi. Read it online.

Q9. Answer: (d) residence

The solution is in Hindi. Read it online.

Q10. Answer: (b) Shy

The solution is in Hindi. Read it online.

Q11. Answer: (d) to struggled with

The solution is in Hindi. Read it online.

Q12. Answer: (b) DBAC

The correct answer is DBAC.

Key Points

• While arranging the parts of the passage, we should find some grammatical or contextual connections between them:

• Sentence D introduces us to the survey conducted by FSSAI. It is the introductory sentence and will be put in the first place.

• Sentence B tells us about the results of the above-mentioned survey. It will be put in second place.

• Sentence A asks us a very relevant question regarding our food choices. It will be put in third place.

• The last sentence is C as it mentions another repercussion of the food that we eat these days.

Thus, the correct order is- A survey conducted by the Food Safety and Standards Authority of India under the Union Agriculture Ministry tested random samples of vegetables in markets all over India. They found that the vegetables contained very high, toxic levels of banned pesticides and the pesticide levels were more than 1000 times the permissible levels. So, what exactly are we eating? And is our food giving rise to the many health problems today?

Q13. Answer: (d) was done very well

The correct answer is was done very well.

Key Points

• The present perfect tense is a verb tense that shows an action or state that either occurred at an indefinite time in the past or began in the past and continued to the present time.

• The structure is given below:

• Subject + has/have + V3 + object. (active voice)

• Object + has/have + been + V3 + subject. (passive voice)

• Example:

• He has played some matches for the Indian Cricket team. (active voice)

• Some matches have been played by him for the Indian Cricket team. (passive voice)

• In the given sentence, we need to follow the structure in the active voice form.

• Since the given sentence talks about the action that continues till present time, 'has done' is the most appropriate choice of the verb form as the subject (The Indian cricket team) is singular.

• Thus we are left with the 4th option as the only correct choice.

Correct Sentence: The Indian cricket team has done very well this year and is ranked number one now.

Q14. Answer: (d) impossible

The correct answer is impossible.

Key Points

• Let's look at the meanings of the given options:-

• exciting- cause strong feelings of enthusiasm and eagerness in (someone).

• boring-

not interesting; tedious.

• pleasant- giving a sense of happy satisfaction or enjoyment.

• impossible- not able to occur, exist, or be done.

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• As per the context of the sentence, the mountain couldn't be climbed by the subject as the weather wasn't good.
• Hence, from the given meanings, we find that the 4th option i.e. impossible is the correct choice.
Correct Sentence: We found it impossible to climb further due to bad weather and decided to give up the expedition.

Q15. Answer: (c) Alliteration

The correct answer is Alliteration.
Key Points
• Let's look at the meaning of the marked option:
• Alliteration- the occurrence of the same letter or sound at the beginning of adjacent or closely connected words
• For e.g.- Peter Piper picked a peck of pickled peppers
• Let's look at the meanings of the other given options:
• Rhyme- poetry or verse marked by rhyme
• Rhythm- a strong, regular, repeated pattern of movement or sound
• Assonance- in poetry, the repetition of the sound of a vowel or diphthong in nonrhyming stressed syllables near enough to each other for the echo to be discernible
• Hence, from the given meanings, we find that Alliteration is the correct one-word substitute.

Q16. Answer: (d) Imigration

The solution is in Hindi. Read it online.

Q17. Answer: (d) Ravina asked her little brother where he was going to play

The correct answer is Ravina asked her little brother where he was going to play.
Key Points
• Let's look at the steps to change the sentence from direct to indirect speech:
• The tense of direct speech is changed only when the reporting verb is in the past tense.
• When the direct speech is in an interrogative form, we follow the steps given below:
• The reporting verb asked will remain the same.
• The word 'where will follow the removal of comma and inverted commas.
• Change the reported speech from interrogative to assertive.
• Present continuous tense (are you going) in direct speech changes to past continuous in indirect speech (he was going).
• The personal pronouns will be changed according to the subject and object of the reporting verb.
• Here 'you' will be converted into 'he' as per the subject.
• At last line up the remaining part.
Following these steps, we finally get - Ravina asked her little brother where he was going to play.

Q18. Answer: (c) Be old-fashioned

The correct answer is Be old-fashioned.
Key Points
• Let's look at the meaning of the given idiom:
• Be behind the times- not having or showing knowledge of current ideas or styles
• Example:
• But they were also half a century behind the times in design.
• **Thus from the explanation given above, we find that the 3rd option is the correct choice.

Additional Information
• Let's look at the origin of the idiom:
• The meaning of the given idiom is evident from the words used in it.

Q19. Answer: (d) Auditor

The correct answer is Auditor.
Key Points
• Let's look at the meanings of the given options:
• Auditor- a person who conducts an audit
• Aviator- a pilot

• Collector- an official who is responsible for collecting money
• Radiator- a thing that radiates or emits light, heat, or sound
• Hence, from the given meanings, we find that Auditor is the correct one-word substitute.

Q20. Answer: (b) New telephone cables are being laid in our colony.

The correct answer is New telephone cables are being laid in our colony.

Key Points

• The structures for both the active and passive forms for present continuous tense are given below:
• Active form- Subject + is/am/are + V1 + ing + Object
• Passive form- Object + is/am/are + being + V3 + by + Subject
• Example:
• He is playing a Cricket match. (active voice)
• A Cricket match is being played by him. (passive voice)
• The given sentence is an assertive one and in the active voice form.
• Follow the passive form structure for the present continuous tense given above:
• Exchange the places of the subject and object. (They - New telephone cables)
• Since the given subject 'cables' is a plural noun, the auxiliary verb 'are' will also be plural.
• Now the verb will be used accordingly. (being laid)
• At last line up the remaining part.

Following these steps, we finally get - New telephone cables are being laid in our colony.

Q21. Answer: (d) Disposeable

The correct answer is Disposeable.

Key Points

• Let's look at the correct spelling and meaning of the marked option:
• Disposable- (of an article) intended to be used once, or until no longer useful, and then thrown away
• Example:
• The market no longer offers disposable plastic bags at checkout.

Let's look at the meanings of the other given options:

• Heavenly- divine
• Advisable- (of a course of action) to be recommended; sensible
• Harass- subject to aggressive pressure or intimidation

Q22. Answer: (b) Obscure

The solution is in Hindi. Read it online.

Q23. Answer: (c) recognition

The correct answer is recognition.

Key Points

• Let's look at the meanings of the given options:
• reward- a thing given in recognition of one's service, effort, or achievement
• resolution- a firm decision to do or not to do something
• recognition- identification of someone or something or person from previous encounters or knowledge
• award- give or order the giving of (something) as an official payment, compensation, or prize to (someone)
• As per the context of the sentence, the subject was given a special award as an appreciation of his work for financially weaker children.
• Hence, from the given meanings, we find that the 3rd option i.e. recognition is the correct choice.

Correct Sentence: In recognition of the great work he is doing for economically weaker children, he has been given a special award.

Q24. Answer: (d) who came in contact

The correct answer is who came in contact.

Key Points

• There are some fixed prepositional phrases given below:

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• by the dint of, out of jealousy, come in contact with something, by the dozen, owing to, on a trip, for a change, etc.
• For example:
• He was in direct contact with the kidnappers.
• The phrase 'come in contact with something' means the state or condition of physical touching.
• Thus the 4th option is the correct choice.

Correct Sentence: Swami Vivekanand's vast knowledge of Eastern and Western culture appealed to all those who came in contact with him.

Additional Information

• There are some verbs/nouns/adjectives which are followed by fixed preposition given below:
• Exonerate from, refrain from, suspicious of, interested in, inured to, accused of, predilection for, respite from, vexed at, etc.
• Example:
• **After spending some time on the island they became inured to the hardships.

Q25. Answer: (c) Regret

The correct answer is Regret.

Key Points

• Let's look at the meanings of the given word and marked option:
• Remorse- deep regret or guilt for a wrong committed
• Regret- used in polite formulas to express apology for or sadness over something unfortunate or unpleasant
• Let's look at the meanings of the other given options:
• Affection- a gentle feeling of fondness or liking
• Indifference- lack of interest, concern, or sympathy
• Reproach- address (someone) in such a way as to express disapproval or disappointment
• Hence from the given meanings, we find that Remorse and Regret are synonyms.

Q26. Answer: (b) [figure]

The option figure that will come next in the following series is shown below:

The triangle on the circle is rotating 45 degree in anti clockwise direction and the triangle inside the circle is rotating 90 degree in clockwise direction.

So, option 2 will be the next figure in the series.

Hence, 'option 2' is the correct answer.

Q27. Answer: (c) YWUSQ

The pattern followed here is:

According to the alphabetical positions of the letters,

1) ROLIF → R - 3 = O; O - 3 = L; L - 3 = I; I - 3 = F

2) TQNKH → T - 3 = Q; Q - 3 = N; N - 3 = K; K - 3 = H

3) YWUSQ → Y - 2 = W; W - 2 = U; U - 2 = S; S - 2 = Q

4) VSPMJ → V - 3 = S; S - 3 = P; P - 3 = M; M - 3 = J

Hence, 'YWUSQ' is the odd one out.

Q28. Answer: (a) [figure]

The correct mirror image of the given figure when the mirror is placed to the right side of the figure is shown below:

Hence, 'option 1' is the correct answer.

Q29. Answer: (b) [figure]

The Venn diagram that best illustrates the relationship between the classes Table, Transistor, and Furniture is shown below:

Table is a furniture.

Transistor is a semiconductor device.

Hence, 'option 2' is the correct answer.

Q30. Answer: (a) Authoritarian : Liberal

The logic is:

Stringent : Flexible → Stringent is antonym of flexible.

Similarly,

Authoritarian : Liberal → Authoritarian is antonym of Liberal.

Hence, 'Authoritarian : Liberal' is the correct answer.

Q31. Answer: (c) ceaccd

Given:- a_cdeacdd_acdeea_ _deac_ _e

1) ceacce → accde / acdde / acdee / aacde / accee

2) aaaccd → aacde / acdda / acdee / aacde / accde

3) ceaccd → accde / acdde / acdee / aacde / accde

4) bbbcbd → abcde / acddb / acdee / abcde / acbde

• Option (3) gives a cyclic pattern of accde - acdde - acdee - aacde - accde

Hence, 'ceaccd' is the correct answer.

Q32. Answer: (b) 125

The logic is:

62 - 3 = 33

72 + 4 = 53

8^2 - 3 = 61

9^2 + 4 = 85

102 - 3 = 97

112 + 4 = 125

12^2 - 3 = 141

Hence, '125' is the correct answer.

Q33. Answer: (b) Only conclusion I follows

The least possible Venn diagram is:

Conclusions:

I. Some buses are vans. → True (As, Some buses are trucks and All trucks are vans → Some buses are vans)

II. All vans are buses → False (As, Some buses are trucks and All trucks are vans → Some vans are buses)

Hence, only conclusion I follows.

Q34. Answer: (b) YLLP

The pattern followed here is:

According to the alphabetical positions of the letters,

R	I	C	H
I	R	X	S

Letters are coded by its opposite letter.

Similarly,

B	O	O	K
Y	L	L	P

Hence, 'YLLP' is the correct answer.

Q35. Answer: (c) 26

The logic is:

10^2 - 1 = 99

9^2 + 1 = 82

82 - 1 = 63

72 + 1 = 50

62 - 1 = 35

52 + 1 = 26

Hence, '26' is the correct answer.

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Q36. Answer: (a) 8 - 3 ÷ 16 × 36 + 6 = 14

Symbol	•	×	÷	•
Meaning	×	•	•	÷

1) 8 - 3 ÷ 16 × 36 + 6 = 14

After changing the symbol by their meaning, we get:

L.H.S = 8 × 3 - 16 + 36 ÷ 6

= 24 – 16 + 6

= 30 – 16

= 14 = R.H.S

2) 8 + 3 ÷ 16 × 36 - 6 = 14

After changing the symbol by their meaning, we get:

L.H.S = 8 ÷ 3 - 16 + 36 × 6

= 2.67 – 16 + 216

= 218.27 – 16

= 202.27 ≠ R.H.S

3) 8 ÷ 3 - 16 + 36 × 6 = 14

After changing the symbol by their meaning, we get:

L.H.S = 8 - 3 × 16 ÷ 36 + 6

= 8 – 1.34 + 6

= 14 – 1.34

= 12.66 ≠ R.H.S

4) 8 × 3 ÷ 16 + 36 - 6 = 14

After changing the symbol by their meaning, we get:

L.H.S = 8 + 3 - 16 ÷ 36 × 6

= 8 + 3 – 2.64

= 11 – 2.64

= 8.36 ≠ R.H.S

Hence, '8 - 3 ÷ 16 × 36 + 6 = 14' is the correct answer.

Q37. Answer: (b) [figure]

The paper when unfolded will appear as shown below:

Hence, 'option 2' is the correct answer.

Q38. Answer: (a) 98

The pattern followed here is:

Sum of the position of letters of word - 2

R → 18

A → 1

M → 13

P → 16

RAMP = (18 + 1 + 13 + 16) - 2 =46

Now,

H → 8

O → 15

R → 18

S → 19

E → 5

HORSE = (8 + 15 + 18 + 19 + 5) - 2 = 63

Similarly,

C → 3

A → 1

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R → 18
P → 16
E → 5
N → 14
T → 20
E → 5
R → 18
CARPENTER = (3 + 1 + 18 + 16 + 5 + 14 + 20 + 5 + 18) - 2 = 98
Hence, '98' is the correct answer.

Q39. Answer: (d) (15, 45, 12)

The logic is:
(12, 48, 8) → (12, 12 × 4, 12 - 4) → (12, 48, 8)
Similarly,
(15, 45, 12) → (15, 15 × 3, 15 - 3) → (15, 45, 12)
Hence, '(15, 45, 12)' is the correct answer.

Q40. Answer: (b) Barrack

All options except 'Barrack' are names of homes of different animals, while 'Barrack' is a building or group of buildings in which soldiers live.
Hence, 'Barrack' is the odd one out.

Q41. Answer: (c) (32, 16, 8)

The logic is as;
First number × Third number = (Second number)²
(25, 20, 16) → 25 × 16 = 20²
(25, 20, 16) → 400 = 400
Similarly,
(32, 16, 8) → 32 × 8 = 16²
(32, 16, 8) → 256 = 256
Hence, the correct answer is (32, 16, 8).

Q42. Answer: (a) 17

The number of triangles in the given figure is shown below:
Hence, '17' is the correct answer.

Q43. Answer: (c) 3 - 5 - 1 - 4 - 2

Arrange the following words in a logical and meaningful order.
3. Pupil
5. Pinna
1. Throat
4. Liver
2. Bladder
Body organs arranged in the order from head to toe.
Hence, '3 - 5 - 1 - 4 - 2' is the correct answer.

Q44. Answer: (c) UPKJCLMY

The pattern followed here is:
According to the alphabetical positions of the letters,
Similarly,
Hence, 'UPKJCLMY' is the correct answer.

Q45. Answer: (b) Sister

By using the symbols in the table given below, we can draw the following family tree:
Babita is sister of Sushma.

Hence, ‘Sister’ is the correct answer.

Confusion Points

Statement given in the question is 'Dharmendar is the only brother of Sushma.', here the word 'only' depicts that Dharmendra is the only brother of Sushma and Babita. All the other siblings must be females.

Q46. Answer: (b) 343 : 125

The logic is:

Both numbers are cube of prime numbers

2197 : 1331 → $13^3 : 11^3$(13, 11 are prime numbers)

Similarly,

343 : 125 → $7^3 : 5^3$(7 and 5 are prime numbers)

Hence, ‘343 : 125’ is the correct answer.

Q47. Answer: (a) 2

In the two dice shown above, '1' is the common face on both of them, so 5, 3, 6 and 4 are adjacent to '1' and the remaining face '2' is opposite to '1'.

Hence, ‘2’ is the correct answer.

Q48. Answer: (b) Root

The logic is:

Foundation is a layer of bricks, etc. under the surface of the ground that forms the solid base of a building or house.

Similarly,

Root is the part of a plant or tree that grows under the ground and takes in water and food from the soil.

Hence, ‘Root’ is the correct answer.

Q49. Answer: (d) 20 years

Let Shruti's age is ‘x’ years.

So, Raman’s age = 2x years

Age of Raman ten years ago was (2x – 10) years and that of Shruti was (x – 10) years.

According to question:

$2x – 10 = 3(x – 10)$

$\Rightarrow 2x – 10 = 3x – 30$

$\Rightarrow 2x – 3x = -30 + 10$

$\Rightarrow -x = - 20$

$\Rightarrow x = 20$

So, present age of Shruti is 20 years.

Hence, ‘20 years’ is the correct answer.

Q50. Answer: (a) [figure]

The option in which the given figure is embedded when rotation is NOT allowed is shown below:

Hence, the correct answer is "option (1)".

Q51. Answer: (d) 1

Concept used :

$\tan(90° - \theta) = \cot \theta$

$\cot (90° - \theta) = \tan \theta$

$\text{cosec}^2\theta - \cot^2\theta = 1$

$\sec^2\theta - \tan^2\theta = 1$

Calculations :

$\tan (63° - \theta) = \cot [90° - (63° - \theta)]$

$\Rightarrow \cot (27° + \theta)$

$\Rightarrow \tan^2 20° = \cot^2 70°$

$\Rightarrow \cot^2 53° = \tan^2 37°$

Putting all the values in the equation

tan (63° - θ) - cot (27° + θ) + (cosec²70° - tan²20°)/(sec²37° - cot253°) = cot (27° + θ) - cot (27° + θ) + (cosec270° - cot270°)/(sec237° - tan237°)

=> 0 + (1/1)

=> 1

Therefore Option 4 will be the correct choice.

Q52. Answer: (d) b/c

Given :

α and β are two roots of the quadratic equation ax2 - bx + c = 0

Concept used :

For equation ax2 - bx + c = 0

Sum of roots (α + β) = -(b/a)

Product of roots (α × β) = c/a

Calculations :

Sum of roots (α + β) = -(-b/a) = b/a

Product of roots (α × β) = c/a

Now,

(1/α) + (1/β) = (α + β)/(αβ)

=> (b/a)/(c/a)

=> b/c

Therefore Option 4 will be the correct answer

Q53. Answer: (a) 130

Given :

The average score of a cricketer for 20 matches is 52 runs. His highest score is more than its lowest score by 120 runs.

If highest and lowest score are excluded than average will be 50.

Concept used :

Average = Sum of all observations/Number of observations

calculations :

Total score of 20 matches = 20 × 52

=> 1040 runs

Total score of 18 matches = 18 × 50

=> 900 runs

Highest score + lowest score = 1040 - 900

=> 140

Lowest score = 140 - highest score

According to the question

Highest score - lowest score = 120

Highest score - (140 - highest score) = 120

=> 2(Highest score) = 260

=> Highest score = 260/2

=> 130 runs

Therefore His highest score will be 130 runs.

Q54. Answer: (d) 2011

Concept used :

Percentage increment = (Final value - initial value)/(Initial value) × 100

Calculations :

Production increment in 2011 = (800 - 500)/(500) × 100 = 60%

Production increment in 2012 = (1200 - 800)/(800) × 100 = 50%

Production increment in 2014 = (1300 - 900)/900) × 100 = 44.44%

Production increment in 2016 = (1500 - 1000)/(1000) × 100 = 50%

Therefore Option 4 is the correct answer.

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Q55. Answer: (b) 2 days

Given :

A can complete a task in 18 days while B can complete the same task in 12 days.

Both worked for 6 days, then A left.

Concept used :

Total work = Work per day × Number of working days

Calculations :

Total work = LCM of 12 and 18 = 36 units

A's per day work = 36/18 = 2 units

B's per day work = 36/12 = 3 units

Their total work in 6 days = 6 × (2 + 3)

=> 30 units

Remaining work = 36 - 30 = 6 units

Time taken by B to complete the remaining work = 6/3

=> 2 days

Therefore Option 2 will be the right answer.

Q56. Answer: (d) 2002

Concept used :

Percentage increment = (Final value - initial value)/(Initial value) × 100

Calculation :

For year 2001 = (440 - 410)/(410) × 100 = 7.31%

For year 2002 = (570 - 440)/(440) × 100 = 29.54%

For year 2003 = (710 - 570)/570) × 100 = 24.56%

For year 2004 = (0/710) × 100 = 0%

Therefore The correct answer will be option 4.

Q57. Answer: (a) 40 cm2

Given :

In triangle ABC, AD, BE and CF are medians and G is the centroid of the triangle and the area of the triangle DGC is 20 cm².

Concept used :

All medians of a triangle divide a triangle in 6 triangles of equal area.

Calculations :

Area of triangles AGF, AGE, DGB, DGC, EGC and FGB are equal.

Δ DGC = 20 cm²

So,

Δ AGF = Δ BGF = 20 cm²

Δ AGF + Δ BGF = 20 + 20

=> 40 cm²

Therefore Option 1 will be the correct answer.

Q58. Answer: (a) 3/4

Given :

A triangle PQR is right-angled at Q. E and F are midpoints of QR and PR respectively.

Concept used :

The area of a triangle is directly proportional to the square of the side of the triangle.

In a triangle ABC if E and F are midpoints of side AB and AC then EF will be half of BC

Calculation :

EF = (1/2) QP (Concept given above)

Area of triangle REF/Area of triangle PQR = (EF/QP)²

=> 1/4

Area of triangle REF : Area of PQR = 1 : 4

Area of triangle = Area to triangle REF + Area of quad PQEF

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Let the area of 4 units
Area of quad PQEF = 4 - 1
=> 3 units
So,
Area of quad PQEF : Area of triangle PQR = 3 : 4
Therefore Option 1 will be the correct answer.

Q59. Answer: (d) 528 cm2

Given :
Radius of wire is 28 cm.
Concept used :
Area of the circle = π radius²
Area of the square = side × side
Circumference of the circle = 2π × radius
Perimeter of square = 4 × side
Calculations :
Circumference of the circle = Perimeter of the square (Length will remain same)
=> 2 π × 28 = Perimeter of square
Perimeter of square = 8 × 22
So,
Side of the square = 44 cm
Now,
Area of square = 44 × 44
=> 1936 cm²
Area of the circle = π × 28 × 28
=> 2464 cm²
Difference of the areas = 2464 - 1936
=> 528 cm²
Therefore Option 4 will be the correct answer.

Q60. Answer: (b) 24.24%

Given:
The marked price of a shirt was Rs. 1,800. A man bought the same shirt for Rs. 1,200 after getting two successive discounts
First discount is 12%.
Concept used:
MP[(100 - x)/(100)][(100 - y)/(100)] = SP
Discount = x% and y%
SP = Selling Price
MP = Marked Price
Calculations:
Let the 2nd discount be x%
According to the question
1800(100 - 12)/(100)] [(100 - x)/100)] = 1200
100 - x = 75.8
=> x = 24.2
Therefore Option 2 will be the correct answer.

Q61. Answer: (d) B

Concept used :
Percent increment = (Final value - initial value)/(Initial value) × 100
Calculations :
Increment for A = (100/100) × 100 = 100%
Increment for B = (120/50) × 100 = 240%

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Increment for C = (80/220) × 100 = 72.72%
Increment for D = (50/150) × 100 = 33.33%
Therefore Option 4 will be the correct answer.

Q62. Answer: (b) 92

Concept used :
l = a + (n - 1) × d, where a = first term, l = last number, n = number of terms and d is the common difference
Calculations :
Let the total number divisible by 13 be n
First number divisible by 13 between 800 to 2000 is 806
Last number divisible by 13 between 800 to 2000 is 1989
So,
=> 806 + (n - 1) × 13 = 1989 [here, a = 806, d = 13 and l = 1989}
=> (n - 1) × 13 = 1183
=> n - 1 = 91
=> n = 92
Therefore Option 2 will be the correct answer.

Q63. Answer: (d) 4354

Given :
x - (1/x) = 8
Concept used :
$(a - b)^2 = a^2 + b^2 - 2ab$
(a + b)2 = a2 + b2 + 2ab
Calculations :
x - (1/x) = 8
Squaring both sides
$x^2 + (1/x)^2 - 2 = 64$
=> x2 + (1/x)2 = 66
Now again squaring both sides
=> x^4 + (1/x)^4 + 2 = 66^2
=> x^4 + (1/x)^4 = 4356 - 2
=> 4354
Therefore Option 4 will be the correct answer.
Shortcut TrickCalculation:
=> x - (1/x) = 8 then,
=> x2 + (1/x)2 = $(8)^2$ + 2
=> x2 + (1/x)2 = 66
Now,
=> x4 + (1/x)4 = $(66)^2$ - 2
=> x4 + (1/x)4 = 4356 - 2
=> x4 + (1/x)4 = 4354
Therefore The correct answer is 4354.

Q64. Answer: (d) 10%

Calculations :
Numbers from 101 to 200 where 9 is at unit digit are => 109, 119, 129, 139, 149, 159, 169, 179, 189, 199
Similarly there will be 10 numbers from 201 to 300 and so on up to from 900 to 1000
Total number from 101 to 1000 = 900
Total number where 9 is at unit place = 10 × 9 = 90
Required percentage = (90/900) × 100
=> 10%
Therefore Option 4 will be the correct answer.

Q65. Answer: (c) Rs. 1,800

Shortcut Trick

Ratio of length to breadth = 3 : 2

Product of ratio parts = 3 × 2 = 6 parts

6 parts = 864 m² => 1 part = 144 m² => 1 ratio unit = 12 m

Length = 3 × 12 = 36 m, and Breadth = 2 × 12 = 24 m

Perimeter = 2 × (36 + 24) = 120 m

Cost of fencing = 120 × Rs. 15 = Rs. 1,800

Therefore The correct answer is Rs. 1,800.

Alternate Method

Given:

Breadth of rectangular field = 2/3 of its Length

Area of rectangular field = 864 m²

Rate of fencing = Rs. 15/m

Calculations:

Let the length of the rectangular field be L meters.

=> Breadth = (2/3) × L

=> Area of rectangle = Length × Breadth

=> 864 = L × (2/3) × L

=> 864 = (2/3) × L²

=> L² = (864 × 3) ÷ 2

=> L² = 432 × 3

=> L² = 1296

=> L = √1296 = 36 m

=> Breadth = (2/3) × 36 = 24 m

=> Perimeter of the rectangular field = 2 × (Length + Breadth)

=> Perimeter = 2 × (36 + 24)

=> Perimeter = 2 × 60 = 120 m

=> Cost of fencing = Perimeter × Rate of fencing

=> Cost of fencing = 120 × 15 = Rs. 1,800

Therefore The correct answer is Rs. 1,800.

Additional Information

Area and Perimeter of Rectangle

The surface area of a rectangle is Area = Length × Breadth, and the perimeter is the total boundary distance given by Perimeter = 2 × (Length + Breadth).

Diagonal of a Rectangle

The diagonal (d) of a rectangle is the shortest straight distance between opposite vertices, calculated as d = √(Length² + Breadth²).

Fencing vs. Turfing Calculations

Fencing requires finding the boundary value (Perimeter), while operations like turfing, flooring, tiling, or plowing require calculating the region occupied (Area).

Q66. Answer: (d) Rs. 12,600

Given :

The percentage profit earned by selling a mobile for Rs. 12,000 is equal to the percentage loss incurred by selling the same mobile for Rs. 9,000.

Concept used :

Profit % = (Selling price - cost price)/(cost price) × 100

Loss % = (Cost price - selling price)/(Cost price) × 100

Calculations :

Let the cost price of the mobile be 'C'

According to the question:

=> (12000 - C)/(C) × 100 = (C - 9000)/(C) × 100

=> C = 10500 rupees

Selling price of mobile at 20% profit = 10500 + 20% of 10500

=> 10500 + 2100

=> 12600 rupees

Therefore Option 4 will be the correct choice.

Q67. Answer: (b) 80 km

Given :

A man travelled a distance of 1200 km in 16 hours. He travelled partly by car at a speed of 40 km/h, and partly by train at a speed of 80 km/h.

Concept used :

Time = Distance/speed

Calculations :

Let the distance travelled with 80 km/h speed be 'x' km

Let the distance travelled with 40 km/h speed be '1200 - x' km

Time for x km = x/80

Time for 1200 - x km = (1200 - x)/40

Total time = (x/80) + (1200 - x)/40

=> (x/80) + (1200 - x)/40 = 16

=> x = 1120 km

Distance travelled by car = 1200 - x

=> 1200 - 1120

=> 80 km.

Therefore Option 2 will be the right answer.

Shortcut TrickCalculation:

Speed of man's overall journey = 1200/16 = 75 km/hr

Now,

Ratio of time = 1 : 7

So (1 + 7) = 8 units = 16 hrs

=> 1 unit = 2 hrs

So distance travelled by car = 40 × 2 = 80 km.

Therefore The correct answer is 80 km.

Q68. Answer: (d) 5 years

Given :

A person borrowed 1,200 at 8% p.a. and Rs. 1,800 at 10% p.a. as simple interest for the same period. He has to pay Rs. 1,380 in all as interest.

Concept used :

Interest = (Principle × Rate of interest × time)/100

Calculation:

Let the time period be 't' years

Interest for Rs. 1200 at 8% rate of interest = (1200 × 8 × t)/100 = 96t

Interest for Rs. 1800 at 10% rate of interest = (1800 × 10 × t)/100 = 180t

Total interest = 1380

=> 96t + 180t = 1380

=> 276t = 1380

=> t = 5 years.

Therefore Option 4 will be the correct answer.

Q69. Answer: (d) 3

Calculations :

Follow the above-given table to solve this question.

=> 4 4/5 ÷ [2 1/5 - 1/2 [1 1/4-(1/4 - 1/5)]]

=> 24/5 ÷ [11/5 - 1/2 (5/4-1/20)]

=> 24/5 ÷ [11/5 - 1/2 (24/20)]

=> 24/5 ÷ [11/5 - 3/5]

=> 24/5 ÷ 8/5

=> 3

Therefore The correct choice will be option 4.

Q70. Answer: (d) 25

Given :

Total number of lecturers are 500

Calculations :

Lecturers in Chemistry = 20% of 500

=> 100

Female lecturers in Chemistry = (1/5) of 100 (Ratio of male to female is 4 : 1)

=> 20

Lecturers in mathematics = 30% of 500

=> 150

Female lecturers in mathematics = (3/10) of 150 (Ratio of male to female is 7 : 3)

=> 45

Difference of female lecturers of Chemistry and Mathematics = 45 - 20

=> 25

Therefore The correct answer will be option 4.

Q71. Answer: (c) 20

Formula used :

$A^3 + B^3 = (A + B)(A^2 + B^2 - AB)$

Calculations :

$((12.5)^3 + (7.5)^3)/((12.5)^2 + (7.5)^2 - 12.5 \times 7.5)$

$=> ((12.5 + 7.5)[(12.5)^2 + (7.5)^2 - (12.5 \times 7.5)])/((12.5)^2 + (7.5)^2 - 12.5 \times 7.5)$

=> 12.5 + 7.5

=> 20

Therefore Option 3 will be the correct answer.

Q72. Answer: (c) 5/7

Given :

By adding 3 and 5 in the numerator and denominator a fraction becomes 2/3.

By subtracting 1 from the numerator and adding 3 in the denominator fraction will become 2/5.

Calculations :

Let the fraction be 'x/y'

According to the question

(x + 3)/(y + 5) = 2/3

=> 3x - 2y = 1 ....(1)

Again

(x - 1)/(y + 3) = 2/5

=> 5x - 2y = 11 ....(2)

Solving equation 1 and 2

We get, x = 5 and y = 7

Fraction = x/y

=> 5/7

Therefore Option 3 will be the correct answer.

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Q73. Answer: (c) 33 cm

Given :

The radii of two circles are 20 cm and 13 cm, respectively.

Formula used :

Circumference of the circle = 2π radius

Calculations :

Let the radius of the bigger circle be R cm

Circumference of bigger circle = 2π R

Circumference of circle (radius = 20 cm) = 2π × 20 = 40π

Circumference of circle (radius = 13 cm) = 2π × 13 = 26π

According to the question

2π R = 40π + 26π

=> R = 20 + 13

=> R = 33 cm

Therefore Option 3 will be the correct answer.

Q74. Answer: (d) 0

Given :

x = cosecA + cosA and y = cosec A - cosA

Formula used :

$\sin^2 \theta + \cos^2 \theta = 1$

Calculations :

x + y = cosecA + cosA + cosec A - cosA

=> 2cosecA

x - y = cosecA + cosA - (cosec A - cosA)

=> 2cosA

$[2/(x + y)]^2 = [2/(2\text{cosecA})]^2 = \sin^2 A$

$[(x - y)/2]^2 = [2\text{cosA}/2]^2 = \cos^2 A$

So,

$[2/(x + y)]^2 + [(x - y)/2]^2 - 1 = \sin^2 A + \cos^2 A - 1$

=> 1 - 1

=> 0

Therefore Correct choice will be option 4.

Q75. Answer: (a) (5 π)/6

Formula used :

$\sin^2 \theta = 1 - \cos^2 \theta$

Calculations :

$2\sin^2 x + \sqrt{3}\cos x + 1 = 2(1 - \cos^2 x) + \sqrt{3}\cos x + 1$

$=> 2 - 2\cos^2 x + \sqrt{3}\cos x + 1 = 0$

$=> 2\cos 2 x - \sqrt{3}\cos x - 3 = 0$

$=> 2\cos 2 x - 2\sqrt{3}\cos x + \sqrt{3}\cos x - 3 = 0$

$=> 2\cos x(\cos x - \sqrt{3}) + \sqrt{3}(\cos x - \sqrt{3}) = 0$

$=> \cos x = -(\sqrt{3}/2)$ or $\cos x = \sqrt{3}$

$=> \cos x = -(\sqrt{3}/2)$ ($\cos x = \sqrt{3}$ is not possible)

$=> x = 150°$ or $(5\pi/6)$

Therefore Option 1 will be the correct choice.

Q76. Answer: (c) football

The correct answer is Football.

Key Points

• Santosh Trophy

• It is a domestic football knock-out competition contested by the regional state associations and government institutions under the

All India Football Federation.
• It was started in 1941.
• Most Successful Team: West Bengal(32 titles)
• All India Football Federation
• Headquarters: Dwarka, Delhi
• President: Praful Patel
• FIFA World Cup
• It is an international football competition held after every four years.
• It was started in 1930.
• Most Successful Team: Brazil(5 times)
• Current Champion: France
• Qatar will host the 2022 FIFA World Cup.
• FIFA
• Headquarters: Zurich, Switzerland
• President: Gianni Infantino
Additional Information

Sports	Domestic Tournaments	International Tournaments
Hockey	Agha Khan Hockey Tournament, Beighton Cup Hockey Tournament	Olympic Games, Hockey World Cup, Champions Trophy, Sultan Azlan Shah Hockey Tournament
Basketball	UBA Pro League, ISBL and ISCL	FIBA World Cup, AfroBasket, EuroBasket, FIBA American Cup
Volleyball	Federation Cup, Pro Volleyball League	FIVB World Championship, NORCECA Championship, Pan American Games

Q77. Answer: (b) amylase

The correct answer is Amylase.
Key Points
• Enzyme
• Enzymes are proteins that act as biological catalysts.
• Enzymes increase the reaction rate by lowering its activation energy.
• The study of enzymes is called enzymology.
• Amylase
• It is an enzyme that catalyzes the hydrolysis of starch into sugars.
• All amylases are glycoside hydrolases.
• alpha and beta amylases are important in brewing beer and liquor made from sugars derived from starch.
• Amylases are used in breadmaking and to breakdown complex sugars, such as starch into simple sugars.
• Saccharides are a food source rich in energy.
Additional Information
• Protease
• A protease is an enzyme that catalyzes proteolysis.
• Protease occurs in all organisms from prokaryotes to eukaryotes to viruses.
• It is involved in many biological functions, including digestion of ingested proteins, protein catabolism, and cell signaling.
• Protease is used to make Paneer.
• Proteases are used in industry, medicine, and basic biological research.
• Lipase
• Lipase is an enzyme that catalyzes the hydrolysis of fats (lipids)
• Lipases perform essential roles in digestion transport and processing of dietary lipids.
• The main lipases of the human digestive system are pancreatic lipase and pancreatic lipase-related protein 2.
• Lipases are a subclass of the esterases.
• Peptidase

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• It is an enzyme that breaks down peptides into amino acids.
• It is produced in the stomach, small intestine, and pancreas.

Q78. Answer: (b) Economics

The correct answer is Economics.

Key Points

• Indian-American Economist Abhijit Banerjee has won the 2019 Nobel Prize in economics, along with Esther Duflo for " their experimental approach to alleviating global poverty"
• Nobel Prize
• It was started on December 10, 1901, in the honor of Alfred Nobel.
• It was awarded in the fields of physics, chemistry, medicine, literature, peace, and economics(started in 1968).
• All Noble Prizes was awarded in Stockholm, Sweden, except Nobel Peace Prize, which was awarded in Oslo, Norway.

Additional Information

Fields	Winners
Physics	1. Roger Penrose 2. Reinhard Genzel 3. Andrea Ghez
Chemistry	1. Emmanuelle Charpentier 2. Jennifer A. Doudna
Medicine	1. Harvey J. Alter 2. Michael Houghton 3. Charles M. Rice
Literature	Louise Gluck
Peace	World Food Programme
Economics	1. Paul R. Milgrom 2. Robert B. Wilson

Q79. Answer: (c) Microeconomics

The correct answer is Microeconomics.

Key Points

• Microeconomics
• It is the study of decisions made by people and businesses regarding the allocation of resources and prices at which they exchange goods and services.
• Tools of Microeconomics: Supply and Demand
• Objectives: It aims to determine the price of a commodity or factors of production
• It assumes all the macro variables to be constant i.e. assumes that national income, consumption, savings are constant.

Additional Information

• Macroeconomics
• It is that part of economic theory which studies the behavior of aggregates of the economy as a whole.
• Tools of Macroeconomics: Aggregate Supply and Aggregate Demand
• Objectives: It aims to determine the income and employment level of the economy
• It assumes all the micro variables to be constant i.e. decisions of households and firms, prices of individual products are constant.
• Econometrics
• It is the use of statistical methods using quantitative data to create theories or test in economics and finance
• Its objectives to provide numerical values to the parameters of economic relationships.
• Health Economics
• It is the part of economics applied to the health care topic.
• Its main objectives are to study how scarce resources are allocated among alternative uses for the care of sickness, maintenance, and improvement of health.

Q80. Answer: (a) An acid

The correct answer is acid.

Key Points

• Acid
• Acids are substances that have a sour taste, have one or more replaceable hydrogen atoms, and turn blue litmus and methyl

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orange to red.
• Example: Hydrochloric acid, nitric acid, sulphuric acid, etc.
• Litmus:
• It is an indicator that shows a color change in the solution as the pH of the solution changes.
• It is used to identify whether a solution is acidic, basic, or neutral.
Additional Information
• Water
• It is vital for all known forms of life, even though it provides no calories or organic nutrients
• Its chemical formula is H2O.
• A Ph of pure water is 7.
• An alkali
• Base or alkali turn red litmus to blue, methyl orange to yellow, and have a bitter taste.
• These solutions are soapy to touch.
• Example: Potassium Hydroxide, Magnesium Hydroxide, Sodium Hydroxide, etc.
• Saline
• Saline or salts are the compounds obtained by the reaction of acid and base, such reactions are called neutralization reactions.
• Example: Sodium Chloride, Potash alum, etc.

Q81. Answer: (a) Ashoka

The correct answer is Ashoka.
Key Points
• Buddhism
• It is the world's fourth-largest religion.
• It was started by the Gautam Buddha.
• The sacred book of Buddhism is Tripitaka written in Pali Language.
• Ashoka
• He was the ruler of the Mauryan Dynasty.
• After the Kalinga war fought in 261 BC, he renounced war, developed the concept of dhamma.
• He promoted the spread of Buddhism in Asia.
Additional Information
• Samudragupta
• He was the ruler of the Gupta Dynasty.
• He was known as the Napoleon of India because of his great military conquests.
• His greatest achievement was the unification of India.
• Brihadratha
• He was the last ruler of the Mauryan Dynasty.
• He was killed by his general Pushyamintra Shunga who established the Sunga Empire.
• Chandragupta I
• He was a king of the Gupta dynasty, who ruled in northern India.
• He assumed the title of Maharajadhiraja.

Q82. Answer: (c) Kedar Jadhav

The correct answer is Kedar Jadhav.
Key Points
• Kedar Jadhav
• He is an Indian Cricketer who is a batting all-rounder.
• He plays for Maharashtra in Ranji Trophy.
• Sri Lankan Team
• It is a full member of the ICC with the test, ODI, T-20 international status.
• It won the 1996 50-50 world cup under the captaincy of Arjun Ranatunga.
Additional Information
• T20 World Cup

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• 2021 Men's world cup host: India
• 2022 Men's world cup host: Australia
• 2023 Women's world cup host: South Africa
• 50-50 cricket World cup
• 2023 Men's world cup host: India
• 2022 Women's world cup host: New Zealand

Q83. Answer: (c) Joule

The correct answer is Joule.

Key Points

• Energy
• Energy is measured as the capacity to do work.
• It is a scalar quantity.
• Its SI unit is Joule and CGS unit is Erg.
• There are different forms of energy:

1. Heat Energy: It is the energy by a body due to its temperature.

2. Internal Energy: The total energy possessed by a body by virtue of the particular configuration of its molecules and also their random motion is called internal energy.

3. Electrical Energy: The energy required to maintain the flow of current in an electric appliance is called electrical energy.

4. Chemical Energy: The energy absorbed or released during a chemical reaction is called chemical energy.

5. Nuclear Energy: The energy absorbed or released during a nuclear reaction is called nuclear energy.

Additional Information

SI Unit	Quantity
Volt	Potential Difference
Watt	Power
Ampere	Electric Current

Q84. Answer: (d) Guru Angad

The correct answer is Guru Angad.

Key Points

• Gurumukhi
• It is the name of the official script used in writing primarily Punjabi.
• It was invented by the Guru Angad.
• Its direction is from left to right.
• The primary scripture of Sikhism the Guru Granth Sahib is written in Gurmukhi.
• Guru Angad
• He was the second Guru of the ten Sikhs gurus of Sikhism.

Additional Information

• Guru Nanak was the founder of Sikhism and the first guru of Sikhism
• Guru Gobind Singh was the last guru of Sikhism.
• Guru Ram, the fourth guru founded the city of Amritsar.
• Guru Arjan, the fifth guru built the Golden Tempe and compiled the holy Granth Sahib.
• He was the first great martyr in Sikh History when he was executed under Jahangir's order.
• Guru Har Krishan Sahib, the eighth guru was the youngest guru. He became a guru when he was five
• Guru Tegh Bahadur was executed under Aurangzeb's orders.

Q85. Answer: (c) Monitor

The correct answer is Monitor.

Key Points

• To enter data into a computer, an input device is required.
• Input Device: It can be defined as an electromechanical device that allows the user to enter data into the computer for analysis

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and storage and to give commands to the computer.

• Example: Keyboard, Mouse, Scanner, etc.

• Output Device: It is any piece of computer hardware equipment used to communicate the results of data carried out by an information processing to the outside world.

• Example: Monitor, Printer, Plotter, etc.

• Monitor

• It is an output device.

• It is also known as the Visual Display Unit.

• The monitor is provided along with the computer to view the display result.

Additional Information

• Scanner

• It is an optical input device and uses light as an input source to convert an image into an electronic form that can be stored on the computer.

• Keyboard

• It is one of the most common input devices.

• It is used to enter data or information, which may be in numeric form or alphabets form in a computer system.

• Mouse

• It is a small handheld device having two or three buttons on its upper side and also has a small wheel between the buttons which provides a means to input data and commands by selecting through moving an arrow.

Q86. Answer: (d) Engineers India Limited

The correct answer is Engineers India Limited.

Key Points

• Engineers India Limited

• It is a Navratna public sector undertaking of the Government of India.

• Headquarters: New Delhi

• Chairman: JC Nakra

• Maharatna Company

• The company should have a turnover of more than Rs. 25000 crore for the last three years.

• The net worth of the company should be more than Rs. 15000 crore for the last three years.

• Currently, there are 12 Maharatna Companies.

Additional Information

• Steel Authority of India Limited

• It is a government-owned steel agency.

• Headquarters: New Delhi

• Chairman: Soma Mandal

• Coal India Limited

• It is an Indian government undertaking a coal mining and refining agency.

• Headquarters: Kolkata

• Chairman: Pramod Agarwal

• GAIL(India) Limited

• It is a government agency, natural gas processing, and distribution entity.

• Headquarters: New Delhi

• Chairman: Manoj Jain

Q87. Answer: (d) Bihar

The correct answer is Bihar.

Key Points

• Buddhism

• It is the world's fourth-largest religion.

• It was started by the Gautam Buddha.

• Gautam Buddha gave four truths of life

1. The world is full of sorrow and misery.

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2. The desire of human beings is the main cause of his sorrows.
3. If there are no desires there are no sorrows.
4. The desires can be conquered by Eight Fold Paths

• The sacred book of Buddhism is Tripitaka written in Pali Language.
• Eight-Fold Paths of Buddhism

1. Right Speech
2. Right Livelihood
3. Right Efforts
4. Right Thoughts
5. Right Actions
6. Right Remembrance
7. Right Concentration
8. Right Mindfulness

• Famous Buddhist sites in India: Vikramshila, Vadnagar, Sanchi, Kapilvastu, Kosambi, Dharamsala

Q88. Answer: (b) Manika Batra

The correct answer is Manika Batra.

Key Points

• Manika Batra
• She is an Indian Table Tennis player.
• She is the top-ranked female table tennis player in India.
• She received Rajiv Gandhi Khel Ratna Award in 2020.

Additional Information

• Sania Mirza
• She is an Indian Professional Tennis Player.
• She has won 6 grand slams titles in her career.
• She also received Rajiv Khel Ratna Award in 2015.
• Rohan Bopanna
• He is an Indian Professional Tennis Player.
• Most of his appearances in professional tournaments have been in double matches.
• He won the French Open Mixed doubles in 2017.
• Leander Paes
• He is an Indian Professional Tennis Player.
• He has won 8 doubles and 10 mixed doubles grand titles.
• He was the first Indian tennis player to win an Olympic Meda when he won the bronze medal in men's singles in the 1996 Atlanta Olympics.

Q89. Answer: (a) Odisha

The correct answer is Odisha.

Key Points

• There are Seven North East Indian Siste State: Arunachal Pradesh, Assam, Nagaland, Manipur, Meghalaya, Tripura, Mizoram
• Odhisa
• Statehood Day: 1 April
• Capital: Bhubaneshwar
• Chief Minister: Naveen Patanik
• Governor: Ganeshi Lal
• National Parks: Bhtarkanika National Park, Nandankanan Zoological Park, Simlipal National Park
• State Animal: Sambar
• State Tree: Sacred Fig
• State Flower: Ashoka
• State Bird: Indian Roller

Additional Information

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States	Capital	Chief Minister	Governor
Tripura	Agartala	Dr. Manik Saha	N. Indrasena Reddy
Manipur	Imphal	(President's Rule – no current CM) – previously N. Biren Singh resigned	Ajay Kumar Bhalla
Meghalaya	Shillong	Conrad Kongkal Sangma	C. H. Vijayashankar

Q90. Answer: (c) Babur, Humayun, Akbar, Jahangir, Shahjahan, Aurangzeb, Bahadur Shah

The correct answer is Babur, Humayun, Akbar, Jahangir, Shahjahan, Aurangzeb, Bahadur Shah.

Key Points

• Babur
• He is the founder of the Mughal Empire.
• He fought the first Battle of Panipat in 1526 with Ibrahim Lodhi and laid the foundation of the Mughal Empire.
• His autobiography Tuzuk-i-Babri was written in the Turkish Language.
• In 1527 his general Mir Baki built Babri Maszid.
• He died in 1530.
• Humayun
• He was the son of Babur.
• He was a mathematician and astronomer.
• His biography Humayunama was written by his sister Gulbadan Begum.
• Akbar
• He was born in 1542 at Amarkot.
• He fought the second battle of Panipat in 1556 with Hemu and he defeated Hemu.
• He abolished the religious tax Jizya.
• He founded a new religion "Din-i- illahi".
• His autobiography was written by Abul Fazal " Ain-i-Akbari".
• Jahangir
• His childhood name was Salim.
• He executed the fifth guru of Sikh Arjun Dev.
• His period was the golden age of painting.
• Shah Jahan
• His period was the golden age of architecture.
• He built the Taj Mahal in memory of his wife Mumtaz Mahal.
• Aurangzeb
• He was an accomplished Veena Player.
• He executed 9th Sikh Shri Guru Tegh Bahadur.
• He adopted the name of Alamgir.
• He abolished the Persian Festival "Navroj".
• Bahadur Shah
• He was the last ruler of the Mughal Empire.
• He led the Delhi in 1857 revolt.

Q91. Answer: (c) freedom to profess religion of one's choice

The correct answer is the freedom to profess the religion of one's choice.

Key Points

• The term Secular was added to the Preamble of the Indian Constitution by 42nd Amendment 1976.
• Article 25
• It guarantees the freedom of profession, practice, and propagation of religion to all citizens
• Article 26
• It guarantees the freedom to manage religious affairs.
• Article 27

• It guarantees the freedom as to payment of taxes for the promotion of any particular religion.

Additional Information

Fundamental Rights	Article
Freedom of speech and Expression	Article 19(1)
Freedom to move freely throughout India	Article 19(1)(d)
Freedom to live with human dignity	Article 21

Q92. Answer: (c) clouds

The correct answer is Clouds.

Key Points

• Clouds

• Clouds help regulate Earth's temperature.

• They bring rain to different regions.

• Clouds develop out of the process of changing moisture from a gas to liquid through a process called convection.

• There are three forms of clouds

1. Cirrus: curly or fibrous
2. Stratus: sheets or layers
3. Cumulus: Heaped or piled

Additional Information

• Soil

• Soils are a complex mixture of water, air, minerals, and a number of organisms that are decaying.

• It forms at the surface of the land.

• It is the skin of the earth.

• It is capable of supporting plant life and is vital to life on earth.

• It is classified into four types:

1. Sandy Soil
2. Silt Soil
3. Clay Soil
4. Loamy Soil

• Mountains

• It is an elevated portion of the Earth's crust generally with steep sides.

• Forces inside and outside the earth manage the shape of the earth's surface.

• There are four types of mountains:

1. Volcanic Mountains
2. F old Mountains
3. Block Mountain
4. Residual Mountains

Q93. Answer: (d) Meghalaya

The correct answer is Meghalaya.

Key Points

• Behdienkhlam

• It is the most celebrated cultural festival of Meghalaya.

• It is celebrated annually in July after the sowing period.

• This festival is an invocation to God, seeking his blessings for a bumper harvest.

• Meghalaya

• Statehood Day: 21 January 1972

• Capital: Shillong

• Chief Minister: Conrad Sangma

• Governor: Phagu Chauhan

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• National Parks: Balphakram National Park, Nokrek National Park
• Festivals: Wangala Festival, Shad Suk Festival, Nongkrem Festival, Behdeinkhlam Festival

Additional Information

States	Festivals
Chhattisgarh	Bastar Dussera, Bhoramdeo Festival, Madai Festival
Tamil Nadu	Pongal, Thaipusam, Mahamaham Festival
Gujarat	Navratri, Rann Utsav, Uttarayan

Q94. Answer: (b) Alluvial fans

The correct answer is Alluvial Fans.

Key Points

• Alluvial Fans
• They are formed when water currents flow from higher levels break into foot slope plains of low gradient.
• Normally very coarse load is carried by streams flowing over mountains slopes.
• Alluvial Fans in humid areas show normally low cones with a gentle slope from head to down.
• Additional Information
• Natural Embankment
• It provides a gradual transition from land to water and takes nature and the landscape into account.
• It is not steep like traditional river banks.
• Flood Plains
• It is a flat area of land next to a river or stream.
• It stretches from the banks of the river to the outer edges of the valley.
• Antiperspirant
• It is a substance applied to the body to protect against sweat and odor.
• It is like deodorant.

Q95. Answer: (c) Narendra Modi

The correct answer is Narendra Modi.

Key Points

• Sabka Saath, Sabka Vikas
• It is a collection of speeches of Prime Minister, Narendra Modi.
• It is released by then Finance Minister Arun Jaitley.
• This book is in five volumes and each volume is categorized into five segments, covering Prime Minister's ideas on Good Governance.
• Narendra Modi
• He is the 14th and current Prime Minister of India since 2014.
• He is a member of Parliament from Varanasi.
• He is the Chief Minister of Gujarat from 2001 to 2014.
• He is the first Prime Minister born after India's Independence.

Additional Information

• Sushma Swaraj
• She was the Minister of External Affairs in the first term of the Narendra Modi Government from 2014 to 2019.
• She was the second woman to hold this office after Indira Gandhi.
• She died on 6 August 2019.
• She was the first female chief minister of Delhi.
• She was the youngest cabinet minister of the Indian state of Haryana.
• Premchand
• He was born on 31 July 1880 and died at the early age of 56 in 1936
• He was a great Indian novelist and his works include over 300 short stories and fourteen novels.
• His popular Novels include Godaan, Bazaar-e-Husn, Karmabhoomi, Shatranj Ke Khiladi, Idgah, Mansarovar, etc.
• Ravi Shankar Prasad

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• He was Ex. Union Minister of Law and Justice, Electronics and Information Technology and Communications in the Government of India.
• He is a member of Parliament from the Patna Sahib constituency.

Q96. Answer: (a) 4 July

The correct answer is 4 July.

Key Points

• Aphelion
• It is the point of Earth's orbit that is farthest from the Sun.
• When the earth reaches aphelion, the sun appears slightly smaller in the sky at any other time of year.
• The earth reaches aphelion only once a year.
• It happens near of 4th of July.

Additional Information

• Perihelion
• It is the point of the Earth's orbit that is nearest to the Sun.
• It happens near of 4th of January.
• The earth reaches perihelion only once a year
• Equinox
• It refers to a day with an equal duration of day and night.
• There are two equinoxes in a year:
1. March 20(Vernal Equinox)
2. September 22(Autumnal Equinox)
• Solstice
• It is the time of the year when the sun is farthest from the equatorial giving the long days or nights.
• It happens twice a year
1. Summer Solstice (June 21)
2. Winter Solstice(December 22)

Q97. Answer: (c) Ravi

The correct answer is Ravi.

Key Points

• Guru Nanak, the first guru of Sikhism founded the Kartarpur on the bank of the Ravi River.
• The Kartarpur Sahib Corridor is 4.1 km. the passage that connects the Dera Baba Nanak shrine in Gurdaspur with the Gurdwara Darbar Sahib in Kartarpur, Pakistan.
• The Kartarpur Sahib Corridor is established on 9 November 2019.
• Prime Minister Narendra Modi inaugurated the Kartarpur Corridor and flagged off the first batch of over 500 Indian Pilgrims.
• Ravi
• It is one of the five rivers of the Indus System.
• The Ravi River originates in the Himalayas in the Chamba district of Himachal Pradesh.
• Under the Indus Water Treaty of 1960, the waters of the Ravi are provided to India.

Additional Information

• Sutlej
• It is one of the six rivers of the Indus System.
• The Sutlej River originates from Mount Kailash.
• Under the Indus Water Treaty of 1960, the waters of the Ravi are provided to India.
• The Bhakra Nangal Dam is built on the river Sutlej.
• Chenab
• It is one of the six rivers of the Indus System.
• The Chenab River originates from Baralacha Pass.
• Under the Indus Water Treaty of 1960, the waters of the Ravi are provided to Pakistan.
• Jhelum
• It is one of the six rivers of the Indus System.
• The Jhelum River originates from Pir Panjal Range

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• Under the Indus Water Treaty of 1960, the waters of the Ravi are provided to Pakistan.

• Beas:

• The Beas River is a river in north India. The river rises in the Himalayas in central Himachal Pradesh, India, and flows for some 470 kilometers to the Sutlej River in the state of Punjab.

• Its total length is 470 kilometers and its drainage basin is 20,303 square kilometers large.

Q98. Answer: (b) Sharad Arvind Bobde

The correct answer is Sharad Arvind Bobde.

Key Points

• Sharad Arvind Bobde

• He is the 47th Chief Justice Of India.

• He also served as the chief justice of Madhya Pradesh High Court.

• He is also serving as the Chancellor of Maharashtra National Law University.

• Chief Justice of India

• He/She is the highest-ranking officer in the Indian Federal Judiciary.

• The CJI is appointed by the President.

• First Chief Justice of Supreme Court: H.J.Kania

• Current Chief Justice: Sharad Arvind Bobde

Additional Information

Persons	Positions
Nilam Sawhney	Principal Advisor to the CM of Andhra Pradesh
Sanjay Karol	Chief Justice of Patna High Court
Ravi Rajan	Chief Justice of Jharkhand High Court

Q99. Answer: (b) 5

The correct answer is 5 years.

Key Points

• Article 56: The President shall hold the office for a period of years from the date on which he enters upon his office.

• Article 55: It deals with the manner of the election of the President.

• The election of the President is done by the system of proportional representation by the means of the single transferable vote and the voting is done by secret ballot.

• Article 54:The President shall be elected by the members of the electoral college consists of :

• Elected members of both the houses of the Parliament.

• Elected members of the Legislative Assemblies of the states.

• Elected members of the Legislative Assemblies of the Union Territory having Legislative Assembly(National Capital Territory of Delhi and Puducherry).

Additional Information

• President

• Article 52: There shall be a President of India.

• He is the constitutional head of the executive of India.

• The term of the office of the President is 5 years.

• He is the first citizen of India.

• He is an integral part of the Indian Parliament.

• He can submit his resignation to the Vice President of India.

• He is the supreme commander of the Indian Armed Forces

• First President of India: Dr. Rajendra Prasad

• Current President: Droupadi Murmu

Q100. Answer: (c) Medha Patkar

The correct answer is Medha Patkar.

Key Points

• Medha Patkar
• She is an Indian Social Activist.
• She is a founding member of Narmada Bachao Andolan and associated with Ghar Bachao Ghar Andolan.
• She gets the Mother Teresa Award for Social Justice in 2014.
• Bhupen Hazarika
• He was an Indian playback singer, lyricist, musician, poet from Assam.
• He received the Dada Sahab Phalke Award, the highest cinema award in India in 1992.
• He received the highest civilian award of India Bharat Ratna posthumously in 2019.
• Nanaji Deshmukh
• He is a social reformer and former member of parliament from Rajya Sabha.
• He is an RSS volunteer.
• He received the highest civilian award of India Bharat Ratna posthumously in 2019.
• Pranab Mukherjee
• He is the 13th President of India from 2012 to 2017.
• He held various ministries portfolios in the Government of India.
• He received the highest civilian award of India Bharat Ratna in 2019.
• He died on 31 August 2020.

Additional Information
• Bharat Ratna
• It is the highest civilian award of India.
• It was instituted in the year 1954.
• The first recipients of the Bharat Ratna were Sarvepalli Radhakrishnan, C.Rajagopalachari, and C.V. Raman.
• The foreigner to receive to Bharat Ratna was Khan Abdul Gaffar Khan who was also known as Frontier Gandhi.
• Till now, it has been awarded to 48 individuals out of which 16 were awarded posthumously.

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