SSC CHSL Previous Paper 19 (Held On: 12 March 2018 Shift 2) (Previous Year Paper)

SSC Combined Higher Secondary Level (CHSL) • 2018 • 100 questions • 60 minutes • Answer key and solutions

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ENGLISH LANGUAGE

Q1. Directions: In the following question, four words are given out of which one word is correctly spelt. Select the correctly spelt word.

(a) immpenetrable
(b) impenetrable
(c) impanetrable
(d) immpanetrable

Q2. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

If a country wants to

A - to listen to the World Bank, the

B - custodian of big business

C - prove it is business-friendly, it has

(a) BCA
(b) CAB
(c) BAC
(d) ACB

Q3. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

The course (has been) a success with more than a thousand students joining it.

(a) have been
(b) is been
(c) was been
(d) no improvement

Q4. In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

That game (were interrupted) by the rains; it resumed an hour after, when the rains stopped.

(a) are interrupted
(b) was interrupt
(c) was interrupted
(d) no improvement

Q5. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Characterized by bitterness or resentment

(a) Piety
(b) Amity

(c) Rancorous
(d) Fidelity

Q6. In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Instruct or improve someone morally or intellectually.

(a) Hoodwink
(b) Allude
(c) Beguile
(d) Edify

Q7. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Children should be seen and not heard

(a) The voice of children is often drowned in company of adults.
(b) Some children will seek attention by crying.
(c) Children should not speak in the presence of adults.
(d) Those children are likable who dress neatly.

Q8. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.

Be in the air

(a) Harmful gaseous effluents from a factory.
(b) To fly like a bird or a plane.
(c) When an emotion or idea is on everyone's mind.
(d) To be likely to happen.

Directions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

The English language is __1 complex in character that it can scarcely be learned by rule, and can _2_ be mastered by the study of such idioms and phrases as are provided in this book; but just as care must be taken to place every accent or stress 3_ the proper syllable in the _4_ of every word it contains, so must the stress or emphasis be placed on the proper word in 5__ sentence spoken.

Q9. proper word in __5__ sentence spoken.

(a) all
(b) while
(c) every
(d) as

Q10. syllable in the ___4____ of every word

(a) pronounce
(b) pronounces
(c) pronounced
(d) pronunciation

Q11. accent or stress ___3__ the proper

(a) on
(b) in
(c) into
(d) to

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Q12. and can ___2___ be mastered by the study

(a) good
(b) best
(c) nice
(d) fine

Q13. The English language is __1__ complex in character

(a) as
(b) to
(c) at
(d) so

Q14. Directions: In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

(a) Ocurrense
(b) Ocurrence
(c) Occurrence
(d) Occurence

Q15. A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech.

The teacher said, “Wow! You have done well.”

(a) The teacher applauded him saying that he had done well.
(b) The teacher appreciated me.
(c) The teacher said wow, he had done well.
(d) The teacher applauded him by saying wow.

Q16. A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

I will conquer it.

(a) It would conquer me.
(b) It will be conquered by me.
(c) Conquered it will be by me.
(d) It will be conquer by me.

Q17. Rearrange the parts of the sentence in correct order.

The first and decisive step

P: in the expansion of

Q: conquest of the Atlantic ocean

R: Europe overseas was the

(a) RPQ
(b) QPR
(c) PRQ
(d) PQR

Q18. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Antithesis

(a) Opposite
(b) Reverse
(c) Harmony
(d) Conflict

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Q19. In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Unprecedented

(a) Exceptional
(b) Bizarre
(c) Fantastic
(d) Known

Q20. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Amorous

(a) Detest
(b) Correct
(c) Erotic
(d) Appreciate

Q21. In the following question, out of the given four alternatives, select the one which best expresses the meaning of the given word.

Winsome

(a) Repulsive
(b) Charming
(c) Ugly
(d) Repellent

Q22. In the following question, the sentence provided with a blank is to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

_____ citizen of India must know about our country’s history, struggle, culture and other important things.

(a) Each
(b) Any
(c) Every
(d) No

Q23. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

What is it? _____ it wait?

(a) May
(b) Can't
(c) Would
(d) Is

Q24. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Along with Plato, Aristotle is considered the father of Western (1)/Philosophy, which from his teachings inherited almost its entire (2)/ lexicon, including problems and methods of inquiry. (3)/ No error (4)

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

Q25. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

She chose (1)/ to stayed (2)/ there for a while. (3)/ No error (4)

(a) 1
(b) 2

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(c) 3
(d) 4

GENERAL INTELLIGENCE

Q26. In the following question, select the related word pair from the given alternatives.

Elephant : Mammal : : ? : ?

(a) Crocodile : Mammal
(b) Snake : Rodents
(c) Rabbit : Mammal
(d) Whale : Reptile

Q27. In the following question, select the related number from the given alternatives.

56 : 30 : : 34 : ?

(a) 24
(b) 12
(c) 7
(d) 9

Q28. In the following question, select the related letter/letters from the given alternatives.

TOK : UQN : : ROL : ?

(a) SQO
(b) SLP
(c) PQM
(d) RHO

Q29. In the following question, select the odd word from the given alternatives.

(a) Cone
(b) Cylinder
(c) Rectangle
(d) Prism

Q30. In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) 15 - 19
(b) 17 - 21
(c) 19 - 23
(d) 11 - 13

Q31. In the following question, select the odd letter/letters from the given alternatives.

(a) HFDB
(b) KIGD
(c) VTRP
(d) NLJH

Q32. From the given alternatives, according to dictionary, which word will come at THIRD position?

1. Serious
2. Single
3. Salted
4. Sand
5. Sickle

(a) Single
(b) Sand

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(c) Sickle
(d) Serious

Q33. In the following question, select the missing number from the given series.

23, 29, 24, 30, 25, ?

(a) 30
(b) 31
(c) 26
(d) 28

Q34. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

EF, GI, IL, KO, ?

(a) MR
(b) NP
(c) MS
(d) NQ

Q35. Raja, Komal, Rupal, Sneha and Tarun are sitting in a line facing south. Raja and Komal are sitting together. Rupal is sitting at west end and Sneha is sitting at east end. Tarun is neighbor of Komal and Rupal. Who is sitting in the middle?

(a) Raja
(b) Tarun
(c) Komal
(d) Rupal

Q36. From the given alternatives, select the word which CANNOT be formed using the letters of the given word.

VISITORS

(a) VISS
(b) VISIT
(c) SITOR
(d) SITE

Q37. In a certain code language, “POWER” is written as “RMYCT”. How is “TABLE” written in that code language?

(a) VYXED
(b) VYDJG
(c) VWEGT
(d) TGJVW

Q38. In a certain code language, '×' represents '+', '÷' represents '×', '-' represents '÷' and '+' represents '-'. Find out the answer to the following question.

17 × 18 ÷ 30 - 20 + 14 = ?

(a) 30
(b) 9
(c) 37
(d) 13

Q39. The following equation is incorrect. Which two signs should be interchanged to correct the equation?

14 + 16 ÷ 40 × 8 - 48 = 46

(a) ÷ and ×
(b) × and -
(c) ÷ and -
(d) • and +

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Q40. If 40 @ 8 = 50, 30 @ 3 = 100 and 10 @ 2 = 50, then find the value of 20 @ 5 = ?

(a) 70
(b) 50
(c) 40
(d) 90

Q41. Which of the following terms follows the trend of the given list?

PRQPQPQPQ, PQRPQPQPQ, PQPRQPQPQ, PQPQRPQPQ, PQPQPRQPQ, _____.

(a) PQPQPQRPQ
(b) RPQPQPQPQ
(c) PRQPQPQPQ
(d) PQRPQPQPQ

Q42. An eagle starts from its nest and flies 1 km East, then turns North and flies 2 km, then turns West and flies 7 km and finally turns to its left and flies 2 km. Where is it now with respect to its nest?

(a) 8 km West
(b) 6 km West
(c) 6 km East
(d) 8 km East

Q43. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: No umbrellas are raincoats

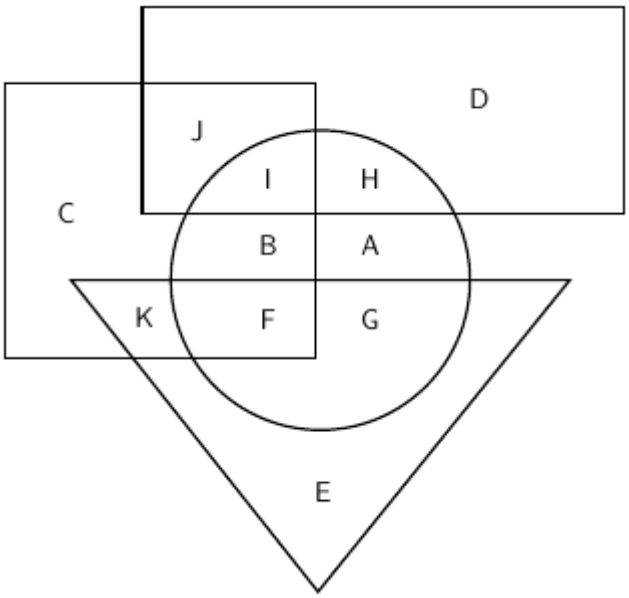
Statement II: Some jackets are umbrellas

Conclusion I: All raincoats are jackets

Conclusion II: All jackets are raincoats

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Both conclusions I and II follow
(d) Neither conclusion I nor conclusion II follows

Q44. In the following figure, rectangle represents lawyers, circle represents Bakers, triangle represents Singers and square represents Golfers. Which set of letters represents Golfer who is not Bakers?



(a) IBF
(b) HAG
(c) CJK

(d) KFG

Q45. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

ZCS, XAQ, VYO, TWM, ?

(a) SUJ
(b) RUK
(c) SVK
(d) RVJ

Q46. In the following question, select the missing number from the given series.

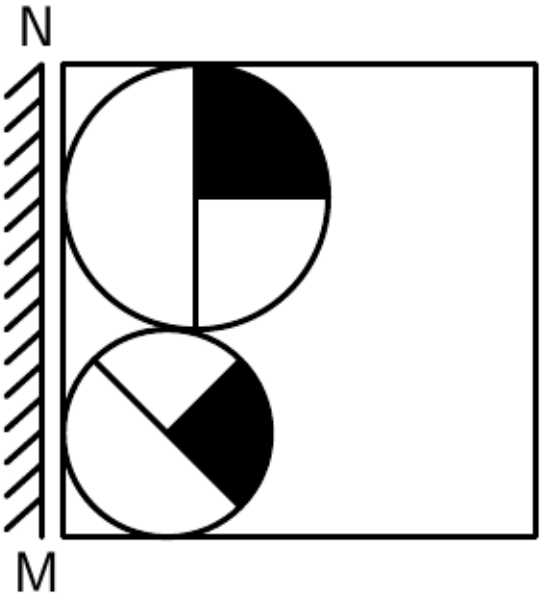
147, 149, 152, 156, 161, ?

(a) 168
(b) 167
(c) 166
(d) 165

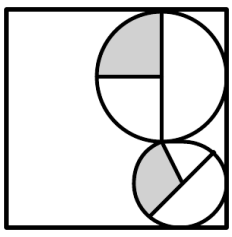
Q47. In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

(a) (2, 4, 8)
(b) (3, 9, 27)
(c) (4, 16, 32)
(d) (5, 25, 125)

Q48. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure?

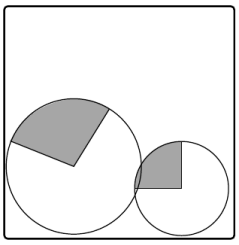


(a)

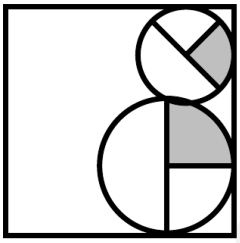


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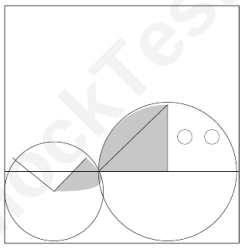
(b)



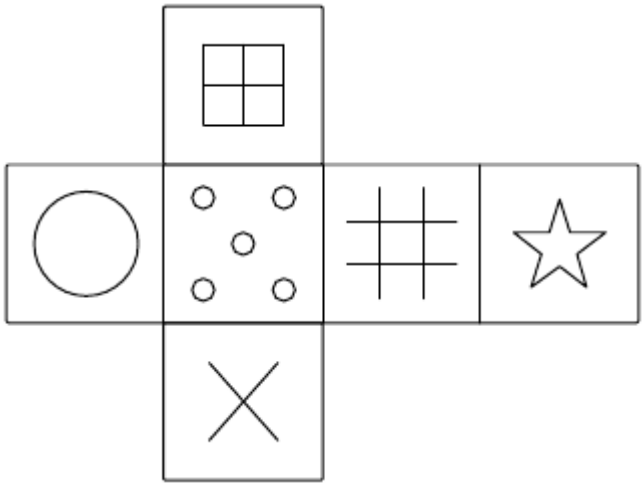
(c)



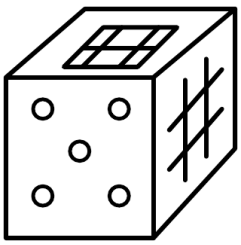
(d)



Q49. Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

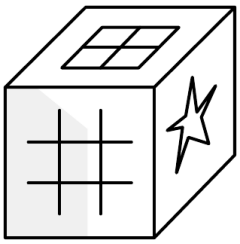


(a)

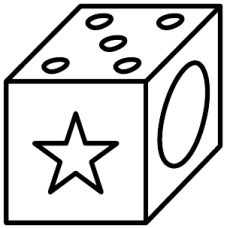


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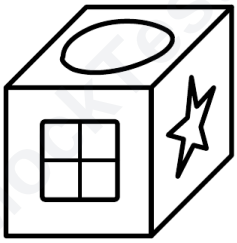
(b)



(c)



(d)



Q50. A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example 'H' can be represented by 12, 34 etc and 'Z' can be represented by 85, 96 etc Similarly, you have to identify the set for the word 'KNIT'.

Matrix - I		**Matrix - II**									
	0	1	2	3	4		5	6	7	8	9
0	A	H	E	L	K	5	N	X	N	Y	X
1	J	J	H	L	F	6	X	Z	Q	X	R
2	D	J	J	C	D	7	V	N	Z	W	Q
3	M	A	K	C	H	8	Z	W	T	Q	Q
4	I	E	B	B	C	9	S	Z	O	V	Z

(a) 32, 76, 40, 87
(b) 34, 67, 21, 85
(c) 21, 69, 40, 68
(d) 22, 59, 14, 68

QUANTITATIVE APTITUDE

Q51. Ankit runs 324 meters every day for his fitness. According to his daily routine in how many days he covers 8.1 km.

(a) 21
(b) 23
(c) 25
(d) 27

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Q52. Simplify: $(13)^2 - (14)^2 + (17)^2 - 250 = \sqrt{?}$

(a) 196
(b) 169
(c) 121
(d) 144

Q53. Determine the value of $(a^2 + b^2)/(a^3 + b^3)$ when $a = 2 + \sqrt{3}$ and $b = 2 - \sqrt{3}$

(a) 0.27
(b) 0.42
(c) 0.58
(d) 0.93

Q54. What is the x-intercept of line joining (4, 2) and (6, 3)?

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

Q55. Which of the following triangle is formed when the triangle has all the three medians of equal length?

(a) Scalene
(b) Isosceles
(c) Equilateral
(d) Right angled

Q56. If the ratio of the angle bisector segments of the two equiangular triangles are in the ratio of 3 : 2 then what is the ratio of the corresponding sides of the two triangles?

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

Q57. Which number is 30% less than 80% of 800?

(a) 524
(b) 192
(c) 448
(d) 368

Q58. A box contain equal number of 1 rupee, 2 rupee and 5 rupee coins. If the total amount is Rs. 184, then how many coins of each type are there?

(a) 18
(b) 26
(c) 25
(d) 23

Q59. A 50 litre mixture of water and alcohol contains 10% alcohol. How much more alcohol must be added to make the strength of alcohol 40% in the new mixture?

(a) 25
(b) 30
(c) 20
(d) 23

Q60. In a committee there are 25 members. If two members whose ages are 64 years and 40 years are replaced by the two new members, then average age of 25 members is decreased by 2 years. What is the average age (in years) of the new members?

(a) 27

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(b) 32
(c) 38
(d) 44

Q61. The simple interest on a sum of Rs. 3300 for 5 years is Rs. 1980. What is the annual rate (in percentage) of interest?
(a) 10
(b) 15
(c) 12
(d) 9

Q62. On selling 30 caps, a shopkeeper earns profit equal to the selling price of 3 caps. What is the profit percentage?
(a) 12.5
(b) 11.11
(c) 10
(d) 14.28

Q63. Selling price of an article is Rs. 2397 and discount offered is 15%. What is the marked price (in Rs.)?
(a) 2756.5
(b) 2856.6
(c) 2740
(d) 2820

Q64. If $3\sqrt{2} + \sqrt{18} + \sqrt{50} = 15.55$, then what is the value of $\sqrt{32} + \sqrt{72}$?
(a) 13.22
(b) 10.83
(c) 14.13
(d) 16.54

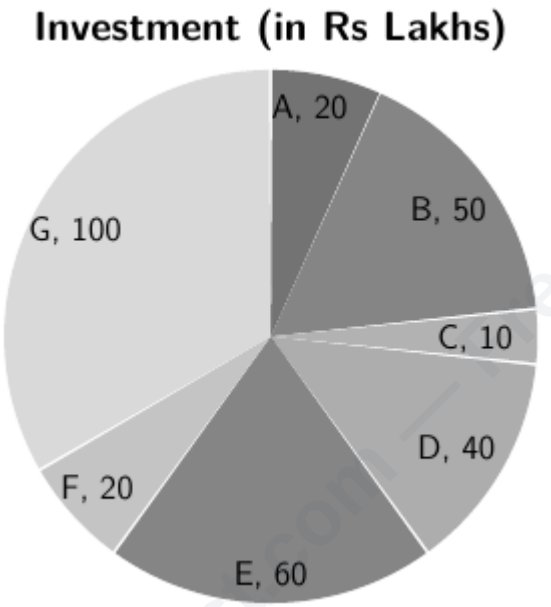
Q65. Both X and Y together can complete a work in 12 days and Y alone can complete the same work in 30 days. In how many days will X alone complete the work?
(a) 15
(b) 20
(c) 18
(d) 16

Q66. A 600 metres long train is running at the speed of 81 km/hr. If it crosses a platform in 40 seconds, then what is the length of the platform (in metres)?
(a) 220
(b) 300
(c) 360
(d) 410

Directions

Direction: The pie chart shows the investments made by 7 partners in a business. Study the diagram and answer the following questions.

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Q67. Which partner has made the second highest investment?

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

Q68. What is the total investment (in Rs. lakhs) in the business?

(a) 400
(b) 350
(c) 300
(d) 250

Q69. The measure of the central angle of the sector representing of partner E is _____ degrees.

(a) 60
(b) 36
(c) 50
(d) 72

Q70. If the business makes Rs. 45 lakhs profit which is distributed between the partners how much does C get (in Rs. lakhs)?

(a) 3
(b) 2
(c) 1.5
(d) 2.5

Q71. The lengths of the two diagonals of a rhombus are 7 cm and 24 cm. Find the length of its perimeter (in cm).

(a) 25
(b) 100
(c) 75
(d) 50

Q72. If the perimeter of a semicircle is 36 cm, then find its area (in cm^2).

(a) 154
(b) 35
(c) 77
(d) 70

Q73. The volume of a hemisphere is 19404 cm³. Find its diameter (in cm).

(a) 42
(b) 21
(c) 84
(d) 63

Q74. What is the value of (tan60° - 1/3)?

(a) 3 - √2
(b) (2√2 - √3)/2
(c) -1/2√3
(d) (3√3 - 1)/3

Q75. In ΔUVW measure of angle V is 90^0. If sinU = 24/25, and UV = 0.7cm, then what is the length(in cm) of side VW?

(a) 2.5
(b) 3
(c) 2.4
(d) 4

GENERAL AWARENESS

Q76. The currency convertibility concept in its original form is originated in _____.

(a) Taylor's agreement
(b) Wells agreement
(c) Bretton woods agreement
(d) Symonds agreement

Q77. India has changed over to the decimal system of coinage in _____.

(a) April, 1958
(b) April, 1959
(c) April, 1995
(d) April, 1957

Q78. Which of the following Vedic texts mentioned the eastern and western seas for the first time?

(a) Tandya Brahmana
(b) Satpath Brahmana
(c) Gopath Brahmana
(d) Kaustiki Brahmana

Q79. Mir Hassan Dehlavi was in the court of which of the following?

(a) Alauddin Khilji
(b) Mubarak Khilji
(c) Muhammad Bin Tughlaq
(d) Firoj Tuglaq

Q80. Which of the following planets has the highest rotational motion?

(a) Mercury
(b) Venus
(c) Mars
(d) Jupiter

Q81. Which country forms the longest international border with India in the far east?

(a) China
(b) Bangladesh
(c) Thailand
(d) Vietnam

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Q82. Saint Kabir was the disciple of whom?

(a) Ramanujacharya
(b) Chaitanya Mahaprabhu
(c) Swami Haridas
(d) Ramananda

Q83. What was the name of the operation launched by India to help Bangladesh in solving Rohingya crisis?

(a) Operation Saksham
(b) Operation Manavata
(c) Operation Khushhali
(d) Operation Insaniyat

Q84. Who among the following has been awarded the Dronacharya Award for the year 2017?

(a) Bhupender Singh
(b) Devender Nath
(c) Syed Shahid Hakim
(d) Roshan Lal

Q85. Which of the following country's national flag has a dragon on it?

(a) Nepal
(b) Sri Lanka
(c) Myanmar
(d) Bhutan

Q86. Which of the following is an example of thermoplastics?

(a) Bakelite
(b) Melamine
(c) PVC
(d) None of the above

Q87. Which among the following has highest electron affinity?

(a) Chlorine
(b) Fluorine
(c) Helium
(d) Xenon

Q88. If any Fundamental Right of a citizen is breached then under Article 226 of Indian Constitution he can move to _____.

(a) Prime minister of India
(b) Chief justice of India
(c) President of India
(d) High Court of State

Q89. What is the minimum age required to become a member of municipality?

(a) 15 years
(b) 20 years
(c) 21 years
(d) 25 years

Q90. In Paramecium, the food is moved to a specific spot by the movement of _____ which cover the entire surface of the cell.

(a) Cilia
(b) Villi
(c) Pseudopodia
(d) Vacuole

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Q91. Which among the following is respiratory pigment in human beings?

(a) Melanin
(b) Haemoglobin
(c) Rhodopsin
(d) Bilirubin

Q92. In July 2017, the central government has set the investment limit per fiscal year for 'Hindu Undivided Family' to _____ kg under 'Sovereign Gold Bonds Scheme'.

(a) 2
(b) 10
(c) 4
(d) 15

Q93. China has successfully launched two Beidou-3 satellites on board of which carrier rocket?

(a) Kuaizhou
(b) Chang-4
(c) Simorgh
(d) Long march-3B

Q94. In May 2017, the base year of All-Indian WPI (Wholesale Price Index) has been revised from 2004-05 to_____.

(a) 2010-11
(b) 2015-16
(c) 2011-12
(d) 2016-17

Q95. From May 2017, the Real estate act has come into effect. It aims to protect the interests of _____.

(a) Bureaucrats
(b) Home buyers
(c) Lenders
(d) None of the above

Q96. Calculate the frequency (in Hz) of a sound wave of wavelength 4m travelling with a speed of 200 m/s.

(a) 50
(b) 800
(c) 100
(d) 400

Q97. The numerical value of a physical quantity is its _____.

(a) Vector
(b) Magnitude
(c) Direction
(d) Property

Q98. Humidity is a measure of the _____.

(a) Pressure in the air
(b) Viscosity of the air
(c) Air resistance
(d) Moisture in air

Q99. Which of the following given below are correct?

a. Aryan Tari won the 2017 world junior chess championship.
b. Dustin Johnson won the golf 2017 WGC-Dell technologies match play.
c. Rafael Nadal won the tennis 2017 Wimbledon championship men's singles.

(a) Only a
(b) A and b

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(c) A, b and c
(d) None of the above

Q100. Books in electronic formats are called _____.

(a) i-books
(b) e-books
(c) e-library
(d) e-learning

ANSWER KEY

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

SOLUTIONS

Q1. Answer: (b) impenetrable

The correct answer is 'Impenetrable'

Key Points

• The correct spelling is 'Impenetrable' and the meaning of this word is- 'Impossible to pass through or enter.'

• Let's see an example-

• His books are notoriously impenetrable.

Q2. Answer: (b) CAB

The correct answer is 'CAB'

Key Points

• In the fixed sentence, the last word is 'to' which is a preposition and we know that it is going to make an infinitive phrase so we need a verb after this. The verb is written in part C.

• At the last of sentence C, the word given is 'has' that makes the perfect tense or a modal verb 'has to' as it cannot make a perfect tense because there no third form of the verb given. Hence, the second part is 'A'

So the correct sentence is- If a country wants to prove it is business-friendly, it has to listen to the World Bank, the custodian of big business.

Q3. Answer: (d) no improvement

The correct answer is 'No improvement'

Key Points

• In the given sentence, 'has' is used for the subject 'course' which is a singular noun. 'been' is the third form of the verb 'be'.

• 'With more than a thousand students joining it' is a phrase that tells that the action is still continuing and in-process. This action was started in the past hence, we need to use the perfect tense which is correctly used in the sentence.

So the correct sentence is- The course has been a success with more than a thousand students joining it.

Q4. Answer: (c) was interrupted

The correct answer is 'was interrupted'

Key Points

• The given bracketed part is to be replaced with 'was interrupted' because the subject of the sentence is 'game' which is a singular noun hence use the singular verb with it.

• We cannot use the present tense here, because the subordinate clause 'when the rains stopped' is in the past tense. Hence use the past tense in the main clause too.

So the correct sentence is- That game was interrupted by the rains; it resumed an hour after, when the rains stopped.

Q5. Answer: (c) Rancorous

The correct answer is 'Rancorous'

Key Points

• Let's see the meaning of the given words-

• Piety→ means 'the quality of being pious or reverent'

• Amity→ means 'friendly relations'

• Rancorous→ means 'bitterness and resentment'

• Fidelity→ means 'continuing loyalty to a person'

• Hence, according to the meaning of the given words, the correct answer is 'Rancorous'

Q6. Answer: (d) Edify

The correct answer is 'Edify'

Key Points

• Let's see the meaning of the given words-

• Hoodwink→ means 'deceive or trick'

• Allude→ means 'hint at'

• Beguile→ means 'trick into doing something'

• Edify→ means 'instruct or improve morally; intellectually'

• So according to the meaning of the given words, the correct answer is 'Edify'

Q7. Answer: (c) Children should not speak in the presence of adults.

The correct answer is 'Children should not speak in the presence of adults'

Key Points

• The meaning of the given idiom 'children should be seen and not heard' means 'you think children should behave well and be quiet'

• Example: "When the adults gathered for an important discussion, the children were reminded that 'children should be seen and not heard,' and they quietly played in the corner while the grown-ups talked.

• So according to the meaning the nearest meaning is 'Option 3'

Q8. Answer: (c) When an emotion or idea is on everyone's mind.

The correct answer is 'Be in the air'

Key Points

• The meaning of the given idiom 'Be in the air' is 'to be going to happen very soon' Or 'if a feeling is in the air, a lot of people feel it at the same time'

• Let's see an example-

• Here was a sense of excitement in the air.

Q9. Answer: (c) every

The correct answer is 'every'

Key Points

• In the given blank, we need a determiner because before the blank the preposition 'in' is given and we know that with the preposition we usually use the prepositional object which can be a noun/pronoun/gerund here the prepositional object is 'sentence' for this noun we need a determiner

• In the given options-

• All- is a pronoun

• While- is conjunction.

• Every- is a determiner.

• As- is an adverb.

• hence, the correct answer is 'every'

Q10. Answer: (d) pronunciation

The correct answer is 'Pronunciation'

Key Points

• In the given blank, we need a noun because before the blank there is a definite article. Hence, in the option, there is only one singular noun which is 'pronunciation.'

• The meaning of this word is- the way in which the word is pronounced.

• 'Pronounced' is a past participle and 'pronounce' is a verb also, 'pronounces' is a plural noun.

So the correct answer is 'Option 4'

Q11. Answer: (a) on

The correct answer is 'on'

Key Points

• The meaning of the word 'Stress'→ pressure; gives particular emphasis or importance.

• With this word, we usually use the preposition 'on' that means 'about or concerning something.'

So the correct answer is 'on'

Q12. Answer: (b) best

The correct answer is 'best'

Key Points

Reading the above sentence we find that:

• The sentence is talking about English and how to master it.

• In the given blank we find that the verb 'be mastered' is written.

• But this verb in itself has little meaning and it should be accompanied by an adverb.

• And the adverb should convey the degree to which the action of mastering can be done.

Important Points

Looking at the options we find that:

• The word best also acts as an adverb which means to the highest degree.

• This gives complete meaning to the sentence i.e to master English to the highest degree.

Thus the sentence will be: 'and can best be mastered by...'

Therefore we can conclude that the correct answer is best.

Q13. Answer: (d) so

The correct answer is 'So'

Key Points

• 'So' is an adverb that is used to show the meaning 'to such a great extent.'

• 'So that' in this phrase 'that' is used to give the result.

• In the given sentence, The English Language is So complex in character that it can scarcely be learned by rule. (Scarcely be learned by rule is the result of the statement given before it.)

So the correct answer is 'Option 4'

Q14. Answer: (c) Occurrence

The correct answer is 'Occurrence'

Key Points

• The correct spelling is 'Occurrence'

• The meaning of the given word is- An occurrence is something that happens.

• Let's see an example-

• 'The food queues have become a daily occurrence across the country.'

Q15. Answer: (a) The teacher applauded him saying that he had done well.

The correct answer is 'The teacher applauded him saying that he had done well.'

Key Points

The given sentence is in 'Direct speech' we need to follow the following steps while changing Direct speech.

• #The first person of reported speech is changed according to the pronoun of the reporting verb.

• Let's see an example-

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• She said, "I will go to London." (Direct speech)
• She said that she would go to London. (Indirect speech)
• #The first-person pronoun of reported speech is not changed if the pronoun of the reporting verb is also the first person.
• Let's see an example-
• I said, "I had applied for a job." (Direct speech.)
• I said I had applied for a job. (Indirect speech.)
• #The second person pronoun of the reported speech is changed according to the 'object' of the reporting verb.
• Let's see an example-
• She said to me, "You are a brilliant student." (Direct Speech)
• She told me that I was a brilliant student. (Indirect Speech)
• She said to them, "You are brilliant students" (Direct speech)
• She told them that they are brilliant students. (Indirect speech)
• #The third person pronoun of the reported speech will not be changed in indirect speech.
• Let's see an example-
• He said, "She will buy a pen." (Direct speech.)
• He said that she would buy a pen. (Indirect speech.)
• The given sentence is an exclamatory sentence follow the table for exclamatory sentences-

Wow!	**State of wonder.**
Alas!	Sate of sorrow.
Hurrah!	State of joy.

• The given sentence speech can be changed in two ways- the first one is 'applauded' and the second one 'exclaimed with wonder' as the second one is not given in the options then choose the first one as your answer.

Q16. Answer: (b) It will be conquered by me.

The correct answer is 'It will be conquered by me.'

Key Points

• The following things to be remembered while changing the active voice into the passive voice-
• Firstly, check the tense of the sentence because it is not going to be changed in the passive voice.
• Secondly, check whether the sentence has an object in it. If it doesn't then go for the infinitive phrase.
• The structure of the passive voice is- Subject + Verb (be) + V3 (past participle) + by + Object.
• So according to the steps, the correct passive voice of the given sentence is- it will be conquered by me.

Q17. Answer: (c) PRQ

The correct answer is 'PRQ'

Key Points

• In the fixed sentence, the last word is 'step' is the subject of the sentence and we need the verb for this singular subject which is written in sentence 'R' but it is not going to be the first part because it makes the whole sentence contextually incorrect.
• So, the first sentence will be 'P' i.e. 'in the expansion of'
• 'of' is a preposition and after the preposition, we need a prepositional object which is going to be a noun/pronoun/gerund/, and the noun is written in 'R' i.e. Europe overseas.

So the correct sentence is- The first and decisive step in the expansion of Europe overseas was the conquest of the Atlantic Ocean.

Q18. Answer: (c) Harmony

The correct answer is 'Harmony'

Key Points

• Let's see the meaning of the given words-
• Antithesis→ means 'a person or thing that is the direct opposite of another'
• Opposite→ means 'situated on the other or further side; facing'
• Reverse→ means 'move backward'
• Harmony→ means 'agreement or concord'
• Conflict→ means 'a serious disagreement or argument'

• So according to the meaning of the given words, the correct answer is 'harmony'

Q19. Answer: (d) Known

The correct answer is 'known'

Key Points

• Let's see the meaning of the given words-

• Unprecedented→ means 'never done or known before'

• Exceptional→ means 'unusual; not typical or unusually good.'

• Bizarre→ means 'very strange or unusual'

• Fantastic→ means 'imaginative or fanciful; remote from reality.'

• Known→ means 'recognized, familiar, or within the scope of knowledge.'

• So according to the meaning of the given words, the correct answer is 'Known'

Q20. Answer: (c) Erotic

The correct answer is 'Erotic'

Key Points

• Let's see the meaning of the given words-

• Amorous→showing or feeling lustful desire.

• Detest→ means 'dislike'

• Correct→ means 'free from error; true or right'

• Erotic→ means 'relating to or tending to arouse excitement'

• Appreciate→ means 'recognize the value or significance of.'

• So according to the meaning of the given words, the correct answer is 'Erotic'

Q21. Answer: (b) Charming

The correct answer is 'charming'

Key Points

• Let's see the meaning of the given words-

• Winsome→ means 'attractive or appealing'

• Repulsive→ means 'intense distaste or disgust'

• Charming→ means 'delightful and attractive or very polite.'

• Ugly→ means 'unpleasant or repulsive'

• Repellent→ means 'able to repel a particular thing; impervious to'

• So according to the meaning of the given words the correct answer is 'charmng'

Q22. Answer: (c) Every

The correct answer is 'Every'

Key Points

In the given blank, we need to use 'every' in the blank

• According to grammar, 'every' is a determiner that is used to show 'for more than two people or group' and 'each' is a determiner or a distributive pronoun that is used for 'for two or more than two'

• In the given sentence, the subject is 'citizen' hence for this we need a determiner we cannot use 'each' as it is a determiner but contextually it would be incorrect. hence, use 'every' to convey the meaning of 'nearly, almost, approximately, roughly'

• Let's see an example-

• They have revised every concept.

• They would go to that temple every Sunday.

So the correct sentence is- Every citizen of India must know about our country's history, struggle, culture, and other important things.

Q23. Answer: (b) Can't

The correct answer is 'Can't'

Key Points

• In the given blank, we need to use 'can't'

• According to grammar, 'can' is a modal verb and it is used to express ability or to say that something is possible.

• Let's see an example-

• Can you speak Japanese?

• Hence, in the given sentence, 'Can' is used to show the possibility.

So the correct sentence is- What is it? Can't it wait?

Q24. Answer: (b) 2

The correct answer is 'Option 2' i.e. '2'.

Key Points

• The relative clause in part 2, "which from his teachings inherited almost its entire lexicon," contains an error in the placement of phrases.

• The phrase "from his teachings" is misplaced, making the sentence awkward and difficult to understand.

• "Its" refers to "Western Philosophy," and indicates that the lexicon of Western Philosophy is almost entirely derived from Aristotle's teachings.

• The correct structure is "which inherited almost its entire lexicon from his teachings" to maintain clarity and grammatical correctness.

Therefore, the correct answer is: 2.

Additional Information

• Option 1: Along with Plato, Aristotle is considered the father of Western

• This part of the sentence is correct, setting the context without any grammatical errors.

• Option 3: lexicon, including problems and methods of inquiry.

• This part is also correct, as it properly lists the components included in the lexicon that Western Philosophy inherited.

Q25. Answer: (b) 2

The correct answer is '2' i.e. error lies in the second part of the sentence.

Key Points

In the second part of the sentence, the usage of 'stayed' is incorrect Instead, use 'stay'

• According to grammar, whenever an infinitive phrase is used we have to use the base form of the verb with the preposition 'to'.

• Let's see an example-

• He asked me not to be late.

So the correct sentence is- She chose to stay there for a while.

Q26. Answer: (c) Rabbit : Mammal

The elephant is a Mammal.

Similarly, the Rabbit is also a Mammal.

Hence, Rabbit: Mammal is the correct answer.

Q27. Answer: (b) 12

The pattern followed here is:

5 × 6 = 30

Similarly,

3 × 4 = 12

Hence, 12 is the correct answer.

Q28. Answer: (a) SQO

→ T - 5 = O, O - 4 = K

→ U - 4 = Q, Q - 3 = N

→ R - 3 = O, O - 3 = L

By following the same pattern,

→ S - 2 = Q, Q - 2 = O

Hence, SQO is the correct answer.

Q29. Answer: (c) Rectangle

Cone, Cylinder, and Prism are 3-dimensional figures, but Rectangle is a 2-dimensional figure.

Hence, the correct answer is "Rectangle".

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Q30. Answer: (d) 11 - 13

The logic followed here is,

Logic: First number + 4 = second number

1) 15 + 4 = 19

2) 17 + 4 = 21

3) 19 + 4 = 23

4) 11 + 4 = 15

Clearly, 11 - 13 does not follow the same pattern.

Hence, the correct answer is "11 - 13".

Q31. Answer: (b) KIGD

The pattern followed here is:-

1) HFDB

2) KIGD

3) VTRP

4) NLJH

As can be seen clearly from the above that KIGD does not follow the same pattern and thus, is the odd one out.

Hence, the correct answer is "KIGD".

Q32. Answer: (d) Serious

The correct order of the given word as they would appear in an English dictionary is as shown below:-

1. Salted
2. Sand
3. Serious
4. Sickle
5. Single

As can be seen clearly from the above that the word 'Serious' will come at THIRD position.

Hence, the correct answer is "Serious".

Q33. Answer: (b) 31

The pattern followed here is:-

Hence, the correct answer is "31".

Q34. Answer: (a) MR

The pattern followed here is:-

As can be seen clearly from the above that the next term in the given series is 'MR'

Hence, the correct answer is "MR".

Q35. Answer: (c) Komal

Given → Raja, Komal, Rupal, Sneha and Tarun are sitting in a line facing south.

1) Rupal is sitting at west end and Sneha is sitting at east end.

2) Tarun is neighbor of Komal and Rupal.

3) Raja and komal are sitting together.

As can be seen clearly from the above that Komal is sitting in the middle.

Hence, the correct answer is "Komal".

Q36. Answer: (d) SITE

Given word → VISITORS

1) VISS → VISITORS (As all the letters are present so, the word can be formed)

2) VISIT → VISITORS (As all the letters are present so, the word can be formed)

3) SITOR → VISITORS (As all the letters are present so, the word can be formed)

4) SITE → VISITORS (As the letter 'E' is missing so, the word 'SITE' CANNOT be formed)

Hence, the correct answer is "SITE".

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Q37. Answer: (b) VYDJG

The pattern followed here is:-

POWER is written as RMYCT

Similarly,

TABLE is written as VYDJG

Hence, the correct answer is "VYDJG".

Q38. Answer: (a) 30

Given → 17 × 18 ÷ 30 - 20 + 14

Symbol	•	•	÷	×
Code	÷	•	×	•

After replacing the symbols with their code,

New Equation → 17 + 18 × 30 ÷ 20 - 14

Now, after applying BODMAS Rule and solving the equation, we get:-

17 + 18 × 30 ÷ 20 - 14

17 + 18 × 1.5 - 14

17 + 27 - 14

44 - 14 = 30

Hence, the correct answer is "30".

Q39. Answer: (a) ÷ and ×

a

Given Equation → 14 + 16 ÷ 40 × 8 - 48 = 46

Checking options one by one by interchanging the signs

1) ÷ and ×

After interchanging ÷ and × we get

New Equation → 14 + 16 × 40 ÷ 8 - 48 = 46

Now, after solving the equation using BODMAS Rule, we get:-

14 + 16 × 40 ÷ 8 - 48 = 46

14 + 16 × 5 - 48 = 46

14 + 80 - 48 = 46

94 - 48 = 46

46 = 46

Left hand side is equal to right hand side.

2) × and -

After interchanging × and - we get

New Equation → 14 + 16 ÷ 40 - 8 × 48 = 46

Now, after solving the equation using BODMAS Rule, we get:-

14 + 16 ÷ 40 - 8 × 48 = 46

14 + 0.4 - 8 × 48 = 46

14 + 0.4 - 384 = 46

14.4 - 384 = 46

-369.6 ≠ 46

Left hand side is not equal to right hand side.

3) ÷ and -

After interchanging ÷ and - we get

New Equation → 14 + 16 - 40 × 8 ÷ 48 = 46

Now, after solving the equation using BODMAS Rule, we get:-

14 + 16 - 40 × 8 ÷ 48 = 46

14 + 16 - 40 × 0.16 = 46

14 + 16 - 6.4 = 46

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30 - 6.4 = 46

23.6 ≠ 46

Left hand side is not equal to right hand side.

4) - and +

After interchanging - and + we get

New Equation → 14 - 16 ÷ 40 × 8 + 48 = 46

Now, after solving the equation using BODMAS Rule, we get:-

14 - 16 ÷ 40 × 8 + 48 = 46

14 - 0.16 × 8 + 48 = 46

14 - 1.28 + 48 = 46

14 + 48 - 1.28 = 46

62 - 1.28 = 46

60.72 ≠ 46

Left hand side is not equal to right hand side.

Hence, the correct answer is "÷ and ×".

Q40. Answer: (c) 40

The logic followed here is :-

40 @ 8 → (40 ÷ 8) × 10 = 50

30 @ 3 → (30 ÷ 3) × 10 = 100

10 @ 2 → (10 ÷ 2) × 10 = 50

Similarly,

20 @ 5 → (20 ÷ 5) × 10 = 40

Hence, the correct answer is "40".

Q41. Answer: (a) PQPQPQRPQ

The pattern followed here is:-

Hence, the correct answer is "PQPQPQRPQ".

Q42. Answer: (b) 6 km West

Given:-

1) An eagle starts from its nest and flies 1 km East.

2) Then turns North and flies 2 km.

3) Then turns West and flies 7 km.

4) Finally turns to its left and flies 2 km.

5) Distance and direction of an eagle with respect to its nest.

As can be seen clearly from the above that the Eagle is 6 km to the west of its nest.

Hence, the correct answer is "6 km West".

Q43. Answer: (d) Neither conclusion I nor conclusion II follows

The least possible Venn diagram for the given statements is as follows:-

Conclusions:

I. All raincoats are Jackets → Doesn't follow (As no direct relationship is given between raincoats and Jackets so, it is not definite that all raincoats are Jackets)

II. All jackets are raincoats → Doesn't follow (As no direct relationship is given between raincoats and Jackets so, it is not definite that all jackets are raincoats)

Hence, the correct answer is "Neither conclusion I nor conclusion II follows".

Q44. Answer: (c) CJK

Given:-

Rectangle represents lawyers, Circle represents Bakers, Triangle represents Singers and Square represents Golfers.

Letters in Rectangle that represents lawyers are → D H I J

Letters in Circle that represents Bakers are → A B F G H I

Letters in Triangle that represents Singers are → E F G K

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Letters in Square that represents Golfers are → B C F I J K

Common letters that represents both Circle that represents Bakers and Square that represents Golfers are → B F I

The set of letters shown by the shaded portion in the figure represents Golfer who is not Bakers i.e. → The letters that are present in Square that represents Golfer but not in Circle that represents Bakers i.e. CJK.

Hence, the correct answer is "CJK".

Q45. Answer: (b) RUK

The pattern followed here is:-

Hence the correct answer is "RUK".

Q46. Answer: (b) 167

The pattern followed here is:-

Hence the correct answer is "167".

Q47. Answer: (c) (4, 16, 32)

The logic followed here is:-

(First number)² = Second number

First number × (First number)² = Third number

1) In (2, 4, 8)

$(2)^2 = 4$

$2 \times (2)^2 = 2 \times 4 = 8$

2) In (3, 9, 27)

$(3)^2 = 9$

$3 \times (3)^2 = 3 \times 9 = 27$

3) In (4, 16, 32)

$(4)^2 = 16$

$4 \times (4)^2 = 4 \times 16 = 64$ not 32

4) In (5, 25, 125)

$(5)^2 = 25$

$5 \times (5)^2 = 5 \times 25 = 125$

As can be seen clearly from the above that (4, 16, 32) doesn't follow the logic and is the odd one out from the given alternatives.

Hence, the correct answer is "(4, 16, 32)".

Q48. Answer: (a) [figure]

The correct mirror image of the given figure when a mirror is placed on the line 'MN' is as shown below:-

Hence, the correct answer is "Option 1".

Additional Information

• The mirror always forms the laterally inverted images, i.e. left changes to right and vice-versa.

• The reflection of an object in the water is called its water image.

• The water image of an object in the water is always vertically inverted, i.e. upside changes to downside and vice-versa.

• The water image is the mirror image in case if the mirror is placed horizontally below the object.

Q49. Answer: (c) [figure]

Given:-

An unfolded cube.

When the unfolded cube is folded then, the opposite faces of the cube will be:-

Checking options one by one to see the figure cube that cannot be formed:-

1) Cube in the Option figure (1) can be formed as no two opposite faces of the cube are present adjacent to each other.

2) Cube in Option figure (2) can be formed as no two opposite faces of the cube are present adjacent to each other.

3) Cube in Option figure (3) CANNOT be formed as two opposite faces i.e.

and

of the cube are present adjacent to each other

4) Cube in the Option figure (4) can be formed as no two opposite faces of the cube are present adjacent to each other.

Hence, the correct answer is "Option 3".

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Q50. Answer: (a) 32, 76, 40, 87

The logic followed here is:-

A letter is represented first by its row and next by its column.

1) 32 → K ; 76→ N ; 40→ I ; 87 → T (so, the word formed is 'KNIT')

2) 34 → H ; 67 → Q ; 21 → J ; 85 → Z (so, the letter cluster formed is HQJZ)

3) 21 → J ; 69 → R ; 40 → J ; 68 → X (so, the letter cluster formed is JRJX)

4) 22 → J ; 59 → X ; 14 → F ; 68 → X (so, the letter cluster formed is JXFX)

Hence, the correct answer is "32, 76, 40, 87".

Q51. Answer: (c) 25

Calculation:

324 meters covered by Ankit = 1 day

1 meter covered by Ankit = 1/324 day

1 km covered by Ankit = 1/324 × 1000

8.1 km covered by Ankit = 1/324 × 8.1 × 1000

= 25 days

Therefore 8.1 km covered by Ankit is 25 days.

Q52. Answer: (d) 144

Calculation:

$(13)^2 - (14)^2 + (17)^2 - 250 = \sqrt{?}$

$\Rightarrow 169 - 196 + 289 - 250 = \sqrt{?}$

$\Rightarrow -27 + 289 - 250 = \sqrt{?}$

$\Rightarrow -277 + 289 = \sqrt{?}$

$\Rightarrow \sqrt{?} = 12$

Therefore ? = 144

Q53. Answer: (a) 0.27

Given:

$(a^2 + b^2)/(a^3 + b^3)$

Calculation:

When $a = 2 + \sqrt{3}$ and $b = 2 - \sqrt{3}$

Putting the value of a & b

$((2 + \sqrt{3})^2 + (2 - \sqrt{3})^2)/((2 + \sqrt{3})^3 + (2 - \sqrt{3})^3)$

$\Rightarrow (4 + 3 + 4\sqrt{(3)} + 4 + 3 - 4\sqrt{(3)})/(8 + 3\sqrt{3} + 6\sqrt{3}(2 + \sqrt{3}) + 8 - 3\sqrt{3} - 6\sqrt{3}(2 - \sqrt{3}))$

$\Rightarrow (14)/(8 + 15\sqrt{3} + 18 + 8 - 15\sqrt{3} + 18)$

$\Rightarrow 14/52 = 0.27$ (Approx.)

Q54. Answer: (a) 0

Calculation:

Let X1 = 4, X2 = 6, Y1 = 2 & Y2 = 3

Equation of line

$\Rightarrow (Y - Y1) = (Y2 - Y1)/(X2 - X_(1))) \times (X - X1)$

$\Rightarrow (Y - 2) = (3 - 2)/(6 - 4) \times (X - 4)$

$\Rightarrow 2Y - 4 = X - 4$

$\Rightarrow X - 2Y = 0$

$\Rightarrow X = 2Y$

At X intercept, Y = 0

Therefore X = 0

Q55. Answer: (c) Equilateral

Calculation:

In equilateral triangle has all three medians of equal length.

Q56. Answer: (b) 3 : 2

Calculation:

By Interior Angle Bisector Theorem

=> AB/AC = BD/DC = 3/2

Q57. Answer: (c) 448

Calculation:

80% of 800 = 800 × 80/100

= 640

So, 30% less than 640 = 640 × 70/100

= 448

Q58. Answer: (d) 23

Shortcut Trick

Since the number of coins of each type is equal, consider one set containing one of each coin.

Value of one set = Rs. 1 + Rs. 2 + Rs. 5 = Rs. 8.

Number of coins of each type = Total Amount ÷ Value of one set.

Number of coins = 184 ÷ 8 = 23.

Therefore The correct answer is 23.

Alternate Method

Given:

Total amount in the box = Rs. 184

Denominations of coins = Rs. 1, Rs. 2, and Rs. 5

Condition: Equal number of each coin type.

Formula Used:

Total Value = ∑ (Number of coins × Face value of each coin)

Calculations:

=> Let the number of coins of each type be x.

=> Value of Rs. 1 coins = 1 × x = x

=> Value of Rs. 2 coins = 2 × x = 2x

=> Value of Rs. 5 coins = 5 × x = 5x

=> Total Amount = x + 2x + 5x = 8x

=> 8x = 184

=> x = 184 ÷ 8

=> x = 23

Therefore The correct answer is 23.

Additional Information

Total Value Calculation

Total Value = (n1 × v1) + (n2 × v2) + ... where n is the number of coins and v is the face value.

Ratio of Coins

If the ratio of the number of coins is a : b : c, the ratio of their values is (a × v1) : (b × v2) : (c × v3).

Unitary Method for Coins

When the quantity is equal, find the total value of one set and divide the total amount by this value to find the count of each type.

Q59. Answer: (a) 25

Calculation:

Alcohol quantity in 50 liter mixture = 50 × 10/100 = 5 Litre

Let the quantity of alcohol added = x liters

According to question

=> (5 + x)/(50 + x) = 40%

=> (5 + x)/(50 + x) = 40/100

=> x = 25 liter

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Q60. Answer: (a) 27

Calculation:

Let the average age of 25 members be = x

Sum of ages of new members = Y

Sum of 25 members Age = 25x

Age of replaced two member = 64 + 40 = 104

According to the question

=> 25x - 104 + Y = (x - 2) 25

=> 25x - 104 + Y + 25x - 50

=> Y = 54

So, the Average of new members = 54/2

= 27

Q61. Answer: (c) 12

Calculation:

Given, P = 3300, SI = 1980 and T = 5 years

=> SI = (p × r × t)/100

=> 1980 = (3300 × 5 × r)/100

Therefore r = 12%

Q62. Answer: (b) 11.11

Calculation:

Let SP of 1 cap = 1

So, SP of 30 caps = 30

We know that,

SP - CP = Profit

=> 30 -CP = 3

=> CP = 27

Profit % = (SP - CP)/CP × 100

= (30 - 27)/27 × 100

= 3/27 × 100

= 11.11%

Q63. Answer: (d) 2820

Calculation:

SP of the article = 2397

Discount offered on the article = 15%

Marked price × (1 - Discount/100) = Selling Price

Therefore Marked price = 2397 × 100/85 = 2820

Q64. Answer: (c) 14.13

Given:

$3\sqrt{2} + \sqrt{18} + \sqrt{50} = 15.55$

Calculation:

$\Rightarrow 3\sqrt{2} + 3\sqrt{2} + 5\sqrt{2} = 15.55$

$\Rightarrow 11\sqrt{2} = 15.55$

$\Rightarrow \sqrt{2} = 15.55/11$

Now, $\sqrt{32} + \sqrt{72}$

$\Rightarrow 4\sqrt{2} + 6\sqrt{2}$

$\Rightarrow 10\sqrt{2}$

Putting the value of $\sqrt{2}$

So, $10 \times 15.55/11 = 14.13$

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Q65. Answer: (b) 20

Calculation:

X and Y together can complete a work = 12 days

Y alone can complete the same work = 30

Let X alone can complete the same work = x days

=> 1/x + 1/30 = 1/12

=> 1/x = 1/12 - 1/30

=> 1/x = (30 - 12)/(30 × 12)

Therefore x = 20 days

Q66. Answer: (b) 300

Calculation:

Speed of the train = 81 km/hr

Length of the train = 600 m

Let the length of the platform = x m

The train crossed the platform = at 40 sec

=> Speed = (Distance)/(time)

=> 81 × 5/18 = (600 + x)/40

=> x = 300 m

Therefore Length of the platform = 300 meters

Q67. Answer: (d) E

Partner E has made the second highest investment = 60 Lakh

Q68. Answer: (c) 300

Therefore total investment = 20 + 50 + 10 + 40 + 60 + 20 + 100 = 300 lakhs

Q69. Answer: (d) 72

E invest in business = 60

Therefore measure of central angle of the sector representing of partner E = 60/300 × 360 = 72°

Q70. Answer: (c) 1.5

Total investment = A + B + C + D + E + F + G = 20 + 50 + 10 + 40 + 60 + 20 + 100 = 300

And, Investment of C = 10 lacks

Total investment : investment of C = 300 : 10 = 30 : 1

Therefore C's share = 1 × 45/30 = 1.5 lakhs

Q71. Answer: (d) 50

Calculation:

The lengths of the first diagonal (d1) = 7

The length of the second diagonal (d2) = 24 cm

=> $a^2 = (d1/2)^2 + (d2/2)^2$ (as diagonals of rhombus bisect at 90°)

=> $a^2 = (7/2)^2 + (24/2)^2$

=> $a^2 = 49/4 + 144$

=> $a^2 = \sqrt{(625/4)}$

=> a = 25/2

Therefore Perimeter of rhombus = 4 × a = 4 × 25/2 = 50 cm

Q72. Answer: (c) 77

Calculation:

Perimeter of semicircle = πr + 2r

=> 36 = πr + 2r

=> 36 = (22/7 + 2) × r

=> 36 = 36/7 × r

=> r = 7 cm

Area of semicircle = 1/2 × πr²

= 1/2 × 22/7 × 7 × 7

= 77 cm²

Q73. Answer: (a) 42

Calculation:

Volume of hemisphere = 2/3 × πr³

=> 19404 = 2/3 × 22/7 × r³

=> r³ = 9261

=> r³ = 21 × 21 × 21

=> r = 21

The radius of hemisphere (r) = 21 cm

Therefore Diameter of hemisphere = 21 × 2 = 42 cm

Q74. Answer: (d) (3√3 - 1)/3

Calculation:

(tan60° - 1/3)

= √3 - 1/3

= (3√3 - 1)/3

Q75. Answer: (c) 2.4

Calculation:

Given, sin U = 24/25

Sin U = (Perpendicular)/hypotenuse = VW/UW = 24/25

Let VW = 24k and UW = 25k

By Pythagoras' theorem

UV² = UW² - VW²

=> 0.7² = (25k)² - (24)²

=> 0.7² = 625k - 576k

=> 0.49 = 49k²

=> k² = 0.49/49 = 0.01

=> k = 0.1

Thus, length of side VW = 24k = 24 × 0.1 = 2.4 cm

Q76. Answer: (c) Bretton woods agreement

The Bretton Woods Agreement is the landmark system for monetary and exchange rate management established in 1944. It was developed at the United Nations Monetary and Financial Conference held in Bretton Woods, New Hampshire, from July 1 to July 22, 1944. Under the agreement, currencies were pegged to the price of gold, and the U.S. dollar was seen as a reserve currency linked to the price of gold.

Q77. Answer: (d) April, 1957

The correct answer is April, 1957.

Key Points

• India change the decimal system of coinage in April 1957.

• In 1957, India shifted to the decimal system, but for a short period, both decimal and non-decimal coins were in circulation.

• To distinguish between the two, the coins minted between 1957 and 1964 have the legend “Naya Paisa” (“new” paisa).

• The denominations in circulation were 1, 2, 5, 10, 20, 25, 50 paise, and 1 rupee.

Q78. Answer: (b) Satpath Brahmana

The correct answer is Satpath Brahmana.

Key Points

• A commentary on the sukla (white) Yajurveda is found in the Satpath Brahmana.

• It is credited to Yajnavalkya, a Vedic guru.

• It is said to be the most comprehensive, organized, and significant of the Brahmanas.

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• It includes thorough explanations of Vedic mythology, symbolism, and sacrifice procedures.

• As the source of various Puranic stories and the incarnations of the RigVedic god Vishnu, the Shatapatha Brahmana is also seen as important in establishing Vaishnavism.

• This Vedic texts mentioned the eastern and western seas for the first time.

Additional Information

• Tandya Brahmana:

• It is a Samaveda Brahmana that is a part of both the Kauthuma and Ranayaniya shakhas.

• Gopath Brahmana:

• The only Brahmana related with the Atharvaveda is the Gopatha Brahmana, a category of prose books outlining Vedic ceremonies.

• Kaustiki Brahmana:

• An old Sanskrit work called the Kaushitaki Upanishad is part of the Rigveda.

Q79. Answer: (a) Alauddin Khilji

Syed Mir Hassan was a scholar of the Qur'an, Hadith, Sufism, and the Arabic language in the court of Alauddin Khilji.

Alauddin Khilji was one of the most powerful rulers of the Khalji dynasty that ruled the Delhi Sultanate in the Indian subcontinent.

Q80. Answer: (d) Jupiter

• Jupiter is the fifth planet from the Sun and the largest in the Solar System.

• It is a giant planet with a mass one-thousandth that of the Sun, but two-and-a-half times that of all the other planets in the Solar System combined.

• Jupiter is the fastest spinning planet about its axis.

• It completes one rotation about its axis in about 10 hrs whereas Earth takes about 24 hours.

Q81. Answer: (b) Bangladesh

Bangladesh and India share a 4,156 km long international border. India shares its longest international border with Bangladesh. Indian State West Bengal with 2217 Km shares longest border with Bangladesh amongst all the states.

Q82. Answer: (d) Ramananda

Ramananda was a 14^(th)century Vaishnava devotional poet saint, in the Ganga river region of Northern India.

The Hindu tradition recognizes him as the founder of the Ramanandi Sampradaya, the largest monastic Hindu renunciant community in modern times.

Q83. Answer: (d) Operation Insaniyat

In response to the humanitarian crisis being faced on account of the large influx of refugees into Bangladesh, Government of India has decided to extend assistance to Bangladesh.

The relief material consists of items required urgently by the affected people, namely rice, pulses, sugar, salt, cooking oil, tea, ready to eat noodles, biscuits, mosquito nets etc.

Q84. Answer: (d) Roshan Lal

The Dronacharya Award, officially known as Dronacharya Award for Outstanding Coaches in Sports and Games, is sports coaching honour of the Republic of India. The award is named after Drona, often referred as "Dronacharya" a character from the Sanskrit epic Mahabharata of ancient India.

Roshan Lal is the latest recipient of Dronacharya award. He was awarded in 2017.

Q85. Answer: (d) Bhutan

The correct answer is Bhutan.

Key Points

• The national flag of Bhutan has a dragon on it.

• The current flag is divided diagonally from the lower hoist-side corner, with the upper triangle yellow and the lower triangle orange.

• Centered along the dividing line is a large black and white dragon facing away from the hoist side.

• The flag features a dragon from Bhutanese mythology.

• It was adopted in 1969.

Additional Information

• Prime Minister of Bhutan - Lotay Tshering

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• The population of Bhutan - 7.63 lakhs

• The religion of Bhutan - Tibetan Buddhis

Q86. Answer: (c) PVC

A thermoplastic, or thermos softening plastic, is a plastic material, a polymer that becomes pliable or mouldable above a specific temperature and solidifies upon cooling.

Polyvinyl chloride (PVC) is a tough, lightweight material that is resistant to acids and bases. Much of it is used by the construction industry, such as for vinyl siding, drain pipes, gutters and roofing sheets.

Q87. Answer: (a) Chlorine

The correct answer is Chlorine.

Key Points

• The element with the highest electron affinity among halogens is Chlorine (Cl).

• Chlorine the group 17th element has the highest electron affinity, also called as halogen represented by X.

• Chlorine is an electronegative element with one electron less than noble gas configuration and a bigger size enough to gain an electron more easily.

• The outermost orbital of Chlorine is a 3p orbital, there is more space, and the electrons in this orbital are inclined to share this space with an extra electron. Therefore, chlorine has a higher electron affinity.

• Hence, Chlorine has the highest electron affinity in the periodic table.

Q88. Answer: (d) High Court of State

Option 4 is correct, i.e. High Court of State.

• Under Article 226, a writ petition can be filed in a High court for issuing one of the five writs as per the case.

• The Supreme Court is considered as the protector and guarantor of the fundamental rights(Article 32).

Article	Detail
Article 226	States about the Power of high court to issue certain writs.
Article 227	States about the Power of superintendence over all courts by the high court.
Article 228	States about the Transfer of certain cases to the high court.
Article 230	States about the Extension of jurisdiction of the high court to union territories.
Article 231	States about the Establishment of a common high court for two or more states.
Article 233	States about the Appointment of the district judge.

Q89. Answer: (c) 21 years

Municipal Corporations are the governing bodies present in the cities with population more than a million.

The Mayor is the head of the municipal corporation, but the role is largely ceremonial as executive powers are vested in the City Corporations commissioner. The tenure of the Mayor is 5 years.

Q90. Answer: (a) Cilia

The correct answer is Cilia.

Explanation:

Paramecium is a genus of unicellular ciliates, commonly studied as a representative of the ciliate group.

A paramecium has thousands of cilia that rhythmically move, providing a way for the food to move around and transfer the food in the oral cavity.

Additional InformationThere are different types of protozoans: ameboid, ciliated, flagellated, and sporozoan.

• Ameboid protozoans

• They are found in moist soil and freshwater/ seawater.

• They capture their prey by putting out pseudopodia also called false feet.

• An example is Amoeba.

• Amoeba also has a contractile vacuole, it is an osmoregulatory organ.

• The contractile vacuole controls the intracellular water balance by expelling excess water from the body.

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• Flagellated protozoans
• They have flagella as a locomotory organ.
• They can be free-living or parasitic.
• An example is Trypanosoma. It causes sleeping sickness.
• Ciliated protozoans
• They are aquatic and actively moving organisms because of the presence of locomotory organs called cilia.
• The cilia help in the movement of water along with the food inside the body cavity.
• An example is Paramoecium. It has a dimorphic nucleus.
• It has one small nucleus called a micronucleus and one large nucleus called a macronucleus.
• Sporozoans
• They have an infectious spore-like stage in their life cycle.
• An example is Plasmodium. It causes malaria in humans.

Q91. Answer: (b) Haemoglobin

The correct answer is Haemoglobin.

Key Points

• The Hemoglobin molecules with the help of external chemical factors take up oxygen molecules in the lungs and then send them to the various tissues of our body.
• Iron is the main constituent of hemoglobin.
• The normal level of hemoglobin is 13 to 17 grams per deciliter in men and 12.0 to 15.5 grams per deciliter in women.

Important Points

• Melanin is a dark biological pigment found in skin, hair, feathers, scales, eyes, and some internal membranes.
• Rhodopsin is called visual purple, a pigment-containing sensory protein that converts light into an electrical signal.
• Bilirubin is a yellowish substance in your blood. It forms after red blood cells break down, and it travels through your liver, gallbladder, and digestive tract before being excreted.

Additional Information

• The biggest regulator of oxygen affinity in Hemoglobin is the oxygen itself.
• If in the lungs, the oxygen levels are high the Hemoglobin shows a greater affinity towards the oxygen molecules, and as it bounds to more oxygen, this property of affinity increases and vice versa.
• When the Oxyhemoglobin binds to the maximum capacity, it becomes saturated but its affinity towards oxygen increases whereas when this binding loose oxygen molecule the affinity decreases.
• This regulation activity is called Cooperativity and is an important function as it allows the maximum amount of Hemoglobin to be carried to the tissues and also allows deoxyhemoglobin which is releasing the oxygen tissue.

Q92. Answer: (c) 4

The Reserve Bank of India rolled out a Sovereign Golds Bonds Scheme on 9^(th) October, 2017, under which it issues the bonds on behalf of the Government of India. The bonds are sold at post offices and banks and issued in denomination of gram.

Q93. Answer: (d) Long march-3B

The Beidou-3M/G/I satellites represent the orbital segment of the third phase of the Chinese Beidou navigation system which uses satellites in Medium Earth Orbit and Geosynchronous Orbit and is also known as the Compass Navigation Satellite System

The Long March 3B also known as the CZ-3B and LM-3B, is a Chinese orbital carrier rocket. Introduced in 1996, it is launched from Launch Area 2 and 3 at the Xichang Satellite Launch Centre in Sichuan.

Q94. Answer: (c) 2011-12

The Wholesale Price Index (WPI) is the price of a representative basket of wholesale goods.

India has adopted new Consumer price Index to measure inflation since it considers the price at which the final consumer purchases essential consumer goods.

Q95. Answer: (b) Home buyers

The Real Estate (Regulation and Development) Act, 2016 is an Act of the Parliament of India which seeks to protect home-buyers as well as help boost investments in the real estate industry.

The Act establishes Real Estate Regulatory Authority (RERA) in each state for regulation of the real estate sector and also acts as an adjudicating body for speedy dispute redressal.

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Q96. Answer: (a) 50

The hertz (symbol: Hz) is the derived unit of frequency in the International System of Units (SI) and is defined as one cycle per second. The wavelength is the spatial period of a periodic wave which is basically the distance over which the wave's shape repeats. It is thus the inverse of the spatial frequency.

Q97. Answer: (b) Magnitude

An order of magnitude is an approximate measure of the size of a number, equal to the logarithm rounded to a whole number.

For example, the order of magnitude of 1500 is 3, because $1500 = 1.5 \times 10^3$

Q98. Answer: (d) Moisture in air

• Humidity is the amount of water vapour present in the air. Water vapour is the gaseous state of water and is invisible to the human eye.

• Humidity indicates the likelihood of precipitation, dew, or fog.

Q99. Answer: (b) A and b

Aryan Tari	**Aryan Tari is a Norwegian chess grandmaster. He was Norwegian Chess Champion in 2015 and won the World Junior Chess Championship in 2017.**
Dustin Johnson	Dustin Hunter Johnson is an American professional golfer who currently plays on the PGA Tour. As of June 10, 2018, he is the World Number 1 in the Official World Golf Ranking.
Rafael Nadal	Rafael Nadal Parera is a Spanish professional tennis player, currently world No. 2 in men's singles tennis by the Association of Tennis Professionals (ATP).Known as "The King of Clay".

Q100. Answer: (b) e-books

An electronic book (or e-book) is a book publication made available in digital form, consisting of text, images, or both, readable on the flat-panel display of computers or other electronic devices.

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