



SSC CGL Tier 1 Solved Paper

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Tier 1

1. Select the related word/letters/numbers from the given alternatives:
Book: Pages :: Wall: ?
(1) SAND
(2) CEMENT
(3) BRICKS
(4) STONES
2. Select the related word/letters/numbers from the given alternatives:
LNPO : ACEF :: TVXY : ?
(1) IMKL
(2) IKMO
(3) IKMN
(4) PKLR
3. Select the related word/letters/numbers from the given alternatives:
4: 20 :: 8: ?
(1) 74
(2) 70
(3) 72
(4) 78
4. Find the odd word/letters/number from the given alternatives. (A) Bud (B) Branch (C) Leaf (D) Plant
(1) A
(2) B
(3) C
(4) D
5. Find the odd word/letters/number from the given alternatives.
(A) ABD (B) FGI (C) LMO (D) STU
(1) A
(2) B
(3) C
(4) D
6. Find the odd word/letters/number pair from the given alternatives.
A. 24-42
B. 36-63
C. 37-73
D. 35-51
(1) A
(2) B
(3) C
(4) D
7. Arrange the following words as per order in the dictionary.
1. Manifest
2. Meticulous
3. Meridian
4. Merchant
(1) 1, 4, 3, 2
(2) 2, 1, 4, 3
(3) 1, 3, 2, 4
(4) 2, 3, 4, 1

8. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
M_ OMMN_ M__ NOMMN_ M
(1) O N M O
(2) N O M O
(3) M O N M
(4) N N M O
9. Which number will complete the series?
14, 27, 52, 101, 198, ?
(1) 381
(2) 395
(3) 391
(4) 394
10. M is son of P, Q is the grand-daughter of O, who is the husband of P. How is M related to O?
(1) Son
(2) Daughter
(3) Mother
(4) Father
11. Ramesh is richer than Satish but Jaya is less rich than Ramesh. Ram is less rich than Jaya but richer than Satish, but is not as rich as Ramesh. Ramesh is less rich than Navin. The richest amongst them is?
(1) Ramesh
(2) Satish
(3) Navin
(4) Jaya
Answer key: 3
12. From the given alternative words, select the word which cannot be formed using the letters of the given word:
CARPENTER
(1) NECTAR
(2) CARPET
(3) PAINTER
(4) REPENT
Answer key: 3
13. If FRIEND is coded as HUMJTK, how can CANDLE be written in that code?
(1) EDRIRL
(2) ESJFME
(3) DCQHOK
(4) DEQJQM
14. If A denotes $-$, C denotes \times , D denotes \div , E denotes $+$, then $14C3A12E4D2=?$
(1) 6
(2) 17
(3) 28
(4) 32
15. If $879=8$, $625=1$,
 $586=9$, then $785=?$
(1) 6
(2) 7
(3) 8
(4) 9

16. Find the missing number from the given alternatives:

8	7	6
7	6	5
6	5	4
90	65	?

- (1) 54
- (2) 44
- (3) 34
- (4) 26

17. Sham goes to his friend's house that is straight 10 Km from his house. On his way back, he takes a right turn and walks 2 Km and again takes a right turn and walks for 10 Km before he takes a right turn again. How much distance is Sham still away from his house?

- (1) 10 Km
- (2) 8 Km
- (3) 12 Km
- (4) 2 Km

18. One or two statements are given followed by two conclusions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions/assumptions can definitely be drawn from the given statement. Indicate your answer.

Statement: All boys are tall.

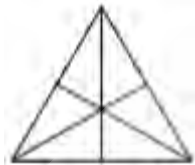
Rajiv is a boy.

Conclusion I: Rajiv is tall.

II: Rajiv is not tall.

- (1) Only conclusion I follows
- (2) Only conclusion II follows
- (3) Both conclusion I and conclusion II follow
- (4) Neither conclusion I nor conclusion II follows

19. How many triangles are there in the question figure?



- (1) 6
- (2) 10
- (3) 12
- (4) 16

20. Which of the following diagrams represent the relationship between Awards, Pulitzer Prize and Oscars?

(1)



(2)



(3)

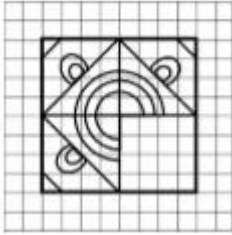


(4)



oliveboard

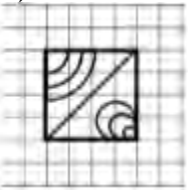
21. Which answer figure will complete the pattern in the question figure?



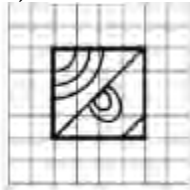
(1)



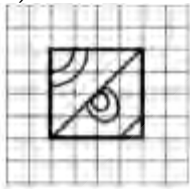
(2)



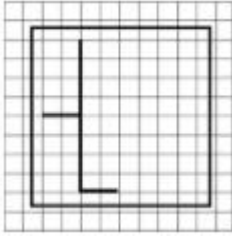
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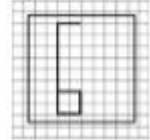
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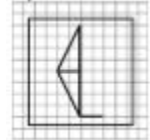
22. From the given answer figures, select the one in which the question figure is hidden/embedded.



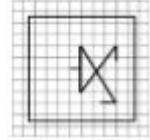
(1)



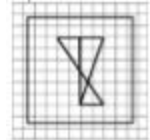
(2)



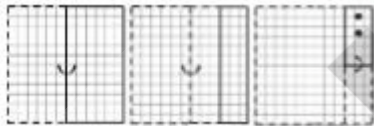
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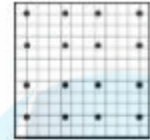
(4)



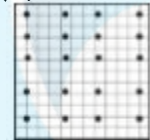
23. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



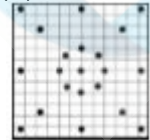
(1)



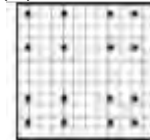
(2)



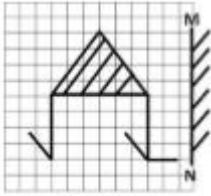
(3)



(4)



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



(1)



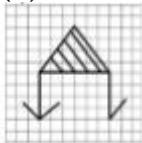
(2)



(3)



(4)



25. In this question, the sets of numbers given in the alternatives are represented. 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, e.g., O can be represented by 04,12, etc., and T can be represented by 65, 79, etc. Similarly, you have to identify the set for the word 'BANK'.

Matrix I

	0	1	2	3	4
0	B	N	G	L	O
1	G	L	O	B	N
2	D	B	N	G	L
3	N	G	L	D	B
4	L	D	B	N	G

Matrix II

	5	6	7	8	9
5	A	T	K	O	N
6	T	K	O	F	A
7	K	O	R	A	T
8	O	F	A	I	K
9	R	A	T	K	O

- (1) 42,69,14,98
- (2) 00,55,33,57
- (3) 21,67,30,86
- (4) 42,78,43,58

26. Which is the heaviest metal among the following?

- (1) Gold
- (2) Silver
- (3) Iron
- (4) Copper

27. Which of the following uses the spawn mechanism to duplicate itself?

- (1) Trojan horse
- (2) Worm
- (3) Keystroke logger
- (4) Logic bomb

28. Sun appears red in colour during sunrise and sunset due to

- (1) the fact that sun emits only red colour at that time
- (2) red light having longer wave length scatters away
- (3) that sun comes out of the mountains
- (4) that all other colours scatter away except red

29. What is the main purpose of white blood corpuscles?

- (1) to carry nutrients
- (2) to combat infection
- (3) to carry oxygen
- (4) to give strength

30. The layer where the decrease in temperature with increasing altitude is totally absent is
- (1) Troposphere
 - (2) **Ionosphere**
 - (3) Stratosphere
 - (4) Mesosphere
31. At hill stations, the boiling point of water will be
- (1) same as at sea level
 - (2) less than that at sea level
 - (3) more than that at sea level
 - (4) equal to the melting point of ice
32. Gandhiji's Satyagraha meant an attachment to the following two elements
- (1) Knowledge and religion
 - (2) Truth and non-violence
 - (3) Truth and chastity
 - (4) Love of motherland and hate for colonial masters
33. What do you mean by 'Density of Population'?
- (1) Ratio of people living below poverty line to total population
 - (2) Number of persons live per square kilometre
 - (3) Number of persons in a city
 - (4) Number of persons living per kilometer
34. Which of the following is not a feature of a capitalist economy?
- (1) Right to private property
 - (2) Existence of competition
 - (3) Service motive
 - (4) Freedom of choice to consumers
35. Sunita Williams is
- (1) Astronaut
 - (2) Missile scientist
 - (3) Nuclear scientist
 - (4) Astro physicist
36. Who is the writer of the famous book 'Kabuliwala'?
- (1) Bankim Chandra Chatterjee
 - (2) Ravindra Nath Tagore
 - (3) Munshi Prem Chand
 - (4) Khan Abdul Gaffar Khan
37. The term 'bully' is connected with which sport?
- (1) Cricket
 - (2) Hockey
 - (3) Badminton
 - (4) Tennis
38. Who amongst the following wrestlers has been the recipient of the Rajiv Gandhi Khel Ratna Award?
- (1) Vijender Singh
 - (2) Sushil Kumar
 - (3) Anand Kumar Singh
 - (4) Zoravar Singh Faujdar
39. Siderosis is a disease caused by the inhalation of
- (1) silica dust
 - (2) iron dust
 - (3) zinc dust
 - (4) coal dust

40. The term 'mesopotamia' means
- (1) a land between two mountains
 - (2) a land between two lakes
 - (3) a land between two rivers
 - (4) a land between two seas
41. Which of the following is used as an anaesthetic?
- (1) N₂
 - (2) N₂O
 - (3) CH₄
 - (4) CO₂
42. Clove is obtained from
- (1) Root
 - (2) Stem
 - (3) Leaves
 - (4) Flower buds
43. What is Dakshin Gangotri?
- (1) River valley in Andhra Pradesh
 - (2) Unmanned station located in Antarctica
 - (3) Second source of River Ganga
 - (4) Island in the Indian Ocean
44. Japan is called the 'Land of the rising sun' because
- (1) Sun rises there as soon as it sets
 - (2) Sun always remains in the eastern part of the sky throughout the day in Japan
 - (3) Japan being the Eastern most country in the world, it has the earliest sunrise
 - (4) The rays of the sun get reflected from the waters of the sea and make the sunrise beautiful in Japan
45. Who was the first Englishman to appear in the Mughal Court during Jahangir's reign?
- (1) Paul Canning
 - (2) Captain William Hawkins
 - (3) William Edward
 - (4) Ralph Fitch
46. The 'Narmada Water Dispute Tribunal' was constituted to resolve the water sharing between
- (1) Gujarat and Rajasthan
 - (2) Gujarat and Maharashtra
 - (3) Gujarat, Maharashtra, Rajasthan and Madhya Pradesh
 - (4) Gujarat and Daman and Diu
47. In which way the president can assign any of the functions of the Union Government to the State Government?
- (1) In his discretion
 - (2) In consultation with the Chief Justice of India
 - (3) In consultation with the Government of the State
 - (4) In consultation with the State Governor
48. Where is the Indian National Rail Museum situated?
- (1) Delhi
 - (2) Uttar Pradesh
 - (3) Punjab
 - (4) Himachal Pradesh

49. Which of the following is not true about Ajanta Caves?
- (1) They are in Maharashtra
 - (2) They are decorated with Buddhist Art
 - (3) They depict the techniques used in Ancient India
 - (4) They do not contain paintings of flora and fauna
50. Who was the founder of Arya Samaj?
- (1) Acharya Narendra Dev
 - (2) Dayanand Saraswati
 - (3) Raja Ram Mohan Roy
 - (4) Acharya Vinoba Bhave
51. A, B and C can work together for Rs. 550/- A and B together are to do $\frac{7}{11}$ of the work. The share of C should be?
- (1) Rs. 200
 - (2) Rs. 300
 - (3) Rs. 400
 - (4) Rs. 450
52. In $\triangle ABC$, the height AD intersects BC at D. The midpoints of AB and BC are Q and P respectively. If AD = 8 cm and CD = 6 cm, then the length of PQ is?
- (1) 3 cm
 - (2) 7 cm
 - (3) 9 cm
 - (4) 5 cm
53. The price of a chair is Rs. 500. It has been sold at two successive discounts of 10% each. What is its selling price?
- (1) Rs. 400
 - (2) Rs. 405
 - (3) Rs. 415
 - (4) Rs. 425
54. The percent profit made when an article is sold for Rs. 78 is twice as much as when it is sold for Rs. 69, the cost price of the article is?
- (1) Rs. 60
 - (2) Rs. 51
 - (3) Rs. 55.50
 - (4) Rs. 70
55. In a village panchayat society 574 names are enlisted as 'below poverty level'. If 14% of the villagers are below poverty level, the total number of villagers is?
- (1) 4100
 - (2) 4200
 - (3) 4000
 - (4) 3800
56. A train 240 meters in length crosses a telegraph post in 16 seconds. The speed of the train is?
- (1) 50 Km/hr
 - (2) 52 Km/hr
 - (3) 54 Km/hr
 - (4) 56 Km/hr
57. If $a^2 + 1 = a$, then the value of a^3 is
- (1) 0
 - (2) 1
 - (3) -1
 - (4) 2

58. If $x+3y = -3x+y$, then $x^2/2y^2$ is equal to

- (1) $1/8$
- (2) $1/2$
- (3) $1/4$
- (4) 4

59. From an external point two tangents to a circle are drawn. The chord passing through the points of contact subtends an angle 72° at the centre. The angle between the tangents is?

- (1) 36°
- (2) 72°
- (3) 108°
- (4) 144°

Answer key: 3

60. Length of three line segments is given. From which of the following case, construction of a triangle is possible ?

- (1) 8 cm, 7 cm, 18 cm
- (2) 8 cm, 15 cm, 17 cm
- (3) 10 cm, 6 cm, 4 cm
- (4) 8 cm, 10 cm, 20 cm

61. If $\sin\theta + \operatorname{cosec}\theta = 2$, then the value of $\sin^{-7}\theta + \operatorname{cosec}^7\theta$ is

- (1) 2^7
- (2) 2^{-7}
- (3) 2
- (4) 2^{-1}

62. A man has some hens and some cows. If the total number of heads of hens and cows together is 50 and the number of feet of hens and cows together is 142, then the number of cows is

- (1) 21
- (2) 25
- (3) 27
- (4) 29

63. In a class, average height of all students is 'a' cms.

Among them, average height of 10 students is 'b' cms and the average height of the remaining students is 'c' cms. Find the number of students in the class. (Here $a > c$ and $b > c$)

- (1) $(a(b-c))/(a-c)$
- (2) $(b-c)/(a-c)$
- (3) $(b-c)/(10(a-c))$
- (4) $(10(b-c))/(a-c)$

Answer key: 4

64. The simplified value of

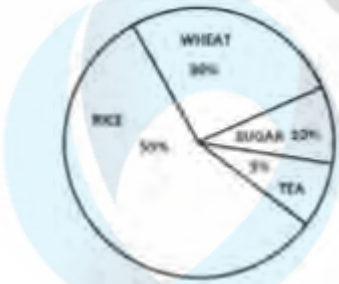
$$(3\sqrt{7}/(\sqrt{5}+\sqrt{2})) - (5\sqrt{5}/(\sqrt{2}+\sqrt{7})) + (2\sqrt{2}/(\sqrt{7}+\sqrt{5}))$$

- (1) 0
- (2) 1
- (3) 5
- (4) 6

65. If $(a+b-6)^2 + a^2+b^2+1 + 2b = 2ab+2a$, then the value of a is

- (1) 7
- (2) 6
- (3) 3.5
- (4) 2.5

66. Two circles of radii 17 cm and 8 cm are concentric. The length of a chord of greater circle which touches the smaller circle is
 (1) 15 cm
 (2) 16 cm
 (3) 30 cm
 (4) 34 cm
67. The least six-digit number which is a perfect square is
 (1) 100489
 (2) 100000
 (3) 100256
 (4) 100225
68. The percentage change of a number when it is first decreased by 10% and then increased by 10% is
 (1) 0.1 % increase
 (2) 1 % decrease
 (3) 0.1 % decrease
 (4) No changes
69. Find the angular elevation of the Sun when the shadow of a 15m long pole is $15/\sqrt{3}$ metres
 (1) 45°
 (2) 60°
 (3) 30°
 (4) 90°
70. If $2y \cos\theta = x \sin\theta$ and $2x \sec\theta - y \operatorname{cosec}\theta = 3$ then what is the value of $x^2 + 4y^2$?
 (1) 4
 (2) 1
 (3) 2
 (4) 5
71. The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. The rate of interest per annum is?
 (1) 6%
 (2) 7%
 (3) 8%
 (4) 9%
72. In the given pie-chart, the comparative study of the production of Rice, Wheat, Sugar and Tea of a country is given. Study the pie-chart and answer the following questions.



From this diagram, the ratio of sum of wheat and sugar production to difference in production of rice and tea is

- (1) 4:5
 (2) 5:4
 (3) 6:1
 (4) 1:6

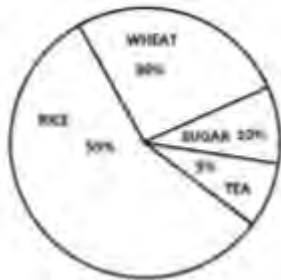
73. In the given pie-chart, the comparative study of the production of Rice, Wheat, Sugar and Tea of a country is given. Study the pie -chart and answer the following questions.



The production of rice and tea is greater than production of wheat by-

- (1) 50%
- (2) 100%
- (3) 75%
- (4) 66.6%

74. In the given pie-chart, the comparative study of the production of Rice, Wheat, Sugar and Tea of a country is given. Study the pie -chart and answer the following questions.



The Central angle of Wheat % is

- (1) 48°
- (2) 98°
- (3) 110°
- (4) 108°

75. In the given pie-chart, the comparative study of the production of Rice, Wheat, Sugar and Tea of a country is given. Study the pie -chart and answer the following questions.



The total production of Rice, Wheat, sugar and Tea (In Kgs) is 500000 Kgs. The production of Rice in the country is

- (1) 175000 Kg
- (2) 395000 kg
- (3) 275000 Kg
- (4) 27500 Kg

76. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it.

- CONTRABAND
- (1) BURGLED
 - (2) SMUGGLED
 - (3) BAFFLED
 - (4) JUGGLED

77. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it.
LENIENT
(1) STRICT
(2) SOLID
(3) FORGIVING
(4) STOIC
78. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word and click the button corresponding to it.
(1) Scarety
(2) Scarcity
(3) Scarsity
(4) Scarecity
79. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.
He was(A) / very kind enough (B) / to invite me (C) / No Error(D).
(1) A
(2) B
(3) C
(4) D
80. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.
Police reports claim that (A) / substantial seizure of cocaine have been made(B) / in the last two months. (C) /No Error(D).
(1) A
(2) B
(3) C
(4) D
81. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.
Every conceivable race and nationality(A) / had its shared of suffering(B) / in the world wars (C)/No Error(D).
(1) A
(2) B
(3) C
(4) D
82. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.
She _____ him angrily because he made the floor dirty with his muddy shoes.
(1) scold
(2) scolds
(3) scolded
(4) scolding

83. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.
He walked along the road wondering what _____ happened and where all the people had gone.
(1) had
(2) has
(3) have
(4) it
84. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.
The criminal was _____ lest he should escape.
(1) fetid
(2) fettered
(3) fettled
(4) feted
85. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.
Drive home
(1) Find one's roots
(2) Emphasize
(3) Refer
(4) Draw
86. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.
To end in smoke
(1) End without any practical result
(2) End with positive result
(3) Die in a burning house
(4) Risk everything in a single venture
87. In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.
A left-handed compliment
(1) A subtle rebuke
(2) Wholesome praise
(3) An ambiguous compliment
(4) A mild compliment
88. Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.
Experts who scientifically study insects
(1) Gerontologists
(2) Pathologists
(3) Entomologists
(4) Ornithologists
89. Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.
One who pretends to be what he is not
(1) Hypocrite
(2) Pessimist
(3) Optimist
(4) Infallible

90. Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.
A paper/story/poem first written out by hand
(1) Handicraft
(2) Manuscript
(3) Handiwork
(4) Thesis
91. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which can improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".
The interview came alive by satellite from Hollywood
(1) came as live
(2) came live
(3) came up live
(4) No improvement
92. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which can improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".
There was little he could do to save his battered reputation
(1) salvage
(2) wreck
(3) destroy
(4) No improvement
93. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which can improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".
It is much too important to be made a joke of
(1) too much important
(2) too many important
(3) very much important
(4) No improvement
94. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which can improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".
If he wants farther help, send him to me
(1) further
(2) much
(3) best
(4) No improvement
95. A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which can improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement".
He jumped on the lake
(1) in the
(2) into the
(3) onto the
(4) No improvement

96. A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it. Some languages are used by a few people. Others, such as Mandarin Chinese and English, are spoken by millions. Many people speak two or more languages. They may use one language at home with family and friends, and another at work or school. Regional variations of language are known as dialects. The Anglo-Saxons, who conquered Britain at the end of the Roman Empire, spoke a Germanic language, which later became English. Other Germanic languages include Danish, Dutch, German and Swedish. English also contains French- derived words after it was ruled by French-speaking kings following the Norman Conquest. Mandarin Chinese is spoken by_____ people.
- (1) little
 - (2) few
 - (3) many
 - (4) big
97. A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it. Some languages are used by a few people. Others, such as Mandarin Chinese and English, are spoken by millions. Many people speak two or more languages. They may use one language at home with family and friends, and another at work or school. Regional variations of language are known as dialects. The Anglo-Saxons, who conquered Britain at the end of the Roman Empire, spoke a Germanic language, which later became English. Other Germanic languages include Danish, Dutch, German and Swedish. English also contains French- derived words after it was ruled by French-speaking kings following the Norman Conquest. A person who is good at foreign languages is known as
- (1) Virtuoso
 - (2) Linguist
 - (3) Ventriloquist
 - (4) Scholar
98. A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it. Some languages are used by a few people. Others, such as Mandarin Chinese and English, are spoken by millions. Many people speak two or more languages. They may use one language at home with family and friends, and another at work or school. Regional variations of language are known as dialects. The Anglo-Saxons, who conquered Britain at the end of the Roman Empire, spoke a Germanic language, which later became English. Other Germanic languages include Danish, Dutch, German and Swedish. English also contains French- derived words after it was ruled by French-speaking kings following the Norman Conquest. _____are regional variations of a language
- (1) English
 - (2) Mandarin Chinese
 - (3) Home language
 - (4) Dialects
99. A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it. Some languages are used by a few people. Others, such as Mandarin Chinese and English, are spoken by millions. Many people speak two or more languages. They may use one language at home with family and friends, and another at work or school. Regional variations of language are known as dialects. The Anglo-Saxons, who conquered Britain at the end of the Roman Empire, spoke a Germanic language, which later became English. Other Germanic languages include Danish, Dutch, German and Swedish. English also contains French- derived words after it was ruled by French-speaking kings following the Norman Conquest. English also included French words_____ the Norman Conquest
- (1) after
 - (2) prior
 - (3) before
 - (4) during

100. A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it.

Some languages are used by a few people. Others, such as Mandarin Chinese and English, are spoken by millions. Many people speak two or more languages. They may use one language at home with family and friends, and another at work or school. Regional variations of language are known as dialects. The Anglo-Saxons, who conquered Britain at the end of the Roman Empire, spoke a Germanic language, which later became English. Other Germanic languages include Danish, Dutch, German and Swedish. English also contains French- derived words after it was ruled by French-speaking kings following the Norman Conquest.

_____ is part of a Germanic language.

- (1) Britain
- (2) Anglo-Saxons
- (3) English
- (4) Roman Empire

Answer keys:

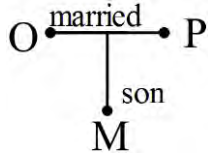
1) 3	2) 3	3) 3	4) 4	5) 4	6) 4	7) 1	8) 2	9) 3	10) 1
11) 3	12) 3	13) 1	14) 4	15) 1	16) 2	17) 4	18) 1	19) 4	20) 3
21) 3	22) 2	23) 4	24) 2	25) 1	26) 1	27) 2	28) 4	29) 2	30) 3
31) 2	32) 2	33) 2	34) 3	35) 1	36) 2	37) 2	38) 2	39) 2	40) 3
41) 2	42) 4	43) 2	44) 3	45) 2	46) 3	47) 3	48) 1	49) 3	50) 2
51) 1	52)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

Solutions:

1. 3
Major portion of books is pages, same for walls major portion is made of bricks. Sand and cement are used to connect the bricks, so they are wrong. Stones are wrong because they are not necessarily symmetrical in shape as pages are symmetrical to each other and bricks are also. So, bricks is closer equivalent to pages than that of stones.
2. 3
When alphabets are numbered sequentially, difference between their numbers assigned is 11.
 $L - A = 12 - 1 = 11$
 $N - C = 14 - 3 = 11$
And so on.
Applying same logic for TVXY, we get IKMN.
Hence, option 3 is the answer.
3. 3
 $4 \times (4+1) = 20$
 $8 \times (8+1) = 72$
Hence option 3 is correct.
4. 4
Bud, Branch and Leaf are all parts of a tree. Plant is not a part of tree but rather a small tree itself.
Hence option 4 is correct.
5. 4
For ADB, $D - B = 4 - 2 = 2$
For FGI, $I - G = 9 - 7 = 2$
For LMO, $O - M = 2$
But for STU, $U - T = 1$
Hence, option 4 is correct.
6. 4
Option A, B and C are mirror images (digits are interchanged within number itself) of each other but option D is not. Hence option 4 is correct.
7. 1
Arrangement as per dictionary will be: - Manifest, Merchant, Meridian and Meticulous.
Hence option 1 is correct.
8. 2
If we divide the sequence into group of 4 letters then we get, "MNOM" repeating over and over. So, filling blanks as per that sequence we get "N O M O". Hence option 2 is correct.
9. 3
 $(14 \times 2) - 1 = 27$
 $(27 \times 2) - 2 = 52$
 $(52 \times 2) - 3 = 101$
 $(101 \times 2) - 4 = 198$
 $(198 \times 2) - 5 = 391$
Hence option 3 is correct.

10. 1

From given statement, O is husband of P.
As, M is son of P, he is also son of O.
Hence option 1 is correct.



11. 3

Ramesh is richer than Jaya and Jaya is less rich than Ramesh. So, Ramesh is richer than both Jaya and Satish. Ram is less rich than Jaya, so Ramesh is obviously richer than Ram also. Ramesh is less rich than Navin, so Navin is richer than all persons. Therefore, richest person among them is Navin. Hence, option 3 is correct.

12. 3

For option 3, none of the options other than option 3 consists letter I. Hence, we cannot form a word PAINTER. Rest of the words can be formed using letters from other words. Hence option 3 is the answer.

13. 1

$$F + 2 = H$$

$$R + 3 = U$$

$$I + 4 = M \text{ And so on.}$$

Applying same logic for Candle,

$$C + 2 = E$$

$$A + 3 = D \text{ and so on. So, CANDLE = EDRIRL.}$$

Hence option 1 is the answer.

14. 4

$$14 \times 3 - 12 + 4 \div 2 = 42 - 12 + 2 = 32$$

Hence option 4 is the answer.

15. 1

$$\text{For } 879, 7 + 9 - 8 = 8$$

$$\text{For } 625, 2 + 5 - 6 = 1$$

$$\text{For } 586, 8 + 6 - 5 = 9$$

$$\text{For } 785, 8 + 5 - 7 = 6. \text{ Hence, option 1 is the answer.}$$

16. 2

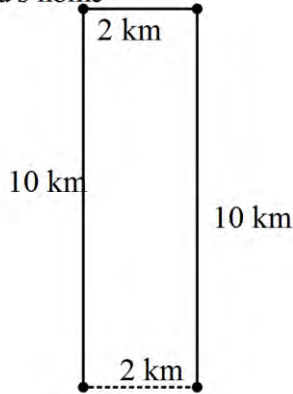
$$(8 + 7) \times 6 = 90$$

$$(7 + 6) \times 5 = 65$$

$$(6 + 5) \times 4 = 44. \text{ Hence option 2 is the answer.}$$

17. 4

Friend's home

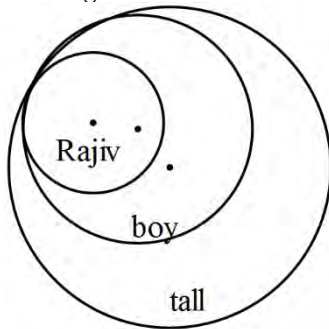


Sham's home

So, he is 2 km away from his house. Hence, option 4 is correct.

18. 1

From given statement: -



So, conclusion I: - Rajiv is tall: - follows.

Conclusion II: - Rajiv is not tall: - does not follow.

Hence option 1 is correct.

19. 4

Small triangles: - 6

Triangles made by combining 2 small triangles: - 3

Triangles made by combining 3 small triangles: - 6

Largest triangle: - 1

So, total = $6 + 3 + 6 + 1 = 16$

Hence option 4 is correct.

20. 3

Pulitzer prize and Oscars are two different prizes given in entirely different categories. So, option 3 represents two isolated circles (Oscars and Pulitzer) in larger circle of category Prizes. So, option 3 is correct.

21. 3

By matching the option, option 1 is wrong as it did not complete 3 circles drawn around centre.

Option 2 is wrong as it didn't have small line and small rings are wrongly placed.

Option 4 is wrong as it has 2 circles instead of 3.

Option 3 is the correct option and it completes the diagram symmetrically.

22. 2

Option 1 and 4 doesn't have small middle horizontal line while option 3 doesn't have small bottom horizontal line. Option 2 is correct answer.

23. 4

When 1st unfolded vertically, it will have 2 holes at top, 2 at bottom with more gap at centre. If we keep unfolding it horizontally, it will appear as shown in figure 4.

It will not have circular symmetry as shown in option 3, will not have 5 holes as shown in figure 2 and holes will not be symmetrically spaced as shown in figure 1.

24. 2

In option 1 and 4, two lines drawn at left bottom part are wrong. In option 3 small line drawn at right bottom is wrong. Option 2 is the correct mirror reflection of question figure. Hence, option 2 is correct.

25. 1

For option 1: - 42 = B, 69 = A, 14 = N and 98 = K.

For option 2: - 33 is not N, for option 3: - 86 is not K and for option 4: - 58 is not K.

Hence, option 1 is right option.

26. 1

27. 2

28. 4

29. 2

30. 3

31. 2

32. 2

33. 2

34. 3

35. 1

36. 2

37. 2

38. 2

39. 2

40. 3

41. 2

42. 4

43. 2

44. 3

45. 2

46. 3

47. 3

48. 1

49. 3

50. 2

51. 1

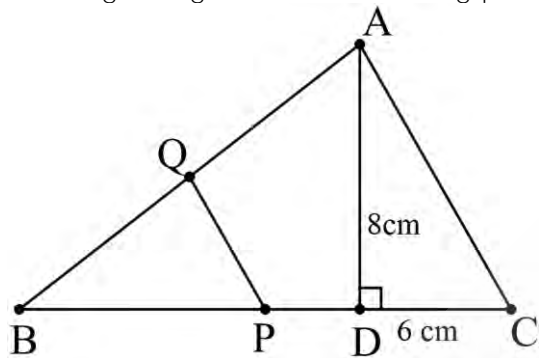
Share of A and B is $\frac{7}{11}$, so share of C is

$$C = 1 - \frac{7}{11} = \frac{4}{11}.$$

$550 \times \frac{4}{11} = 200$. Share of C should be Rs. 200.

52. 4

Drawing triangle ABC and marking points D, P and Q on them, we get: -



Now, from diagram: -

$$(AC)^2 = (DC)^2 + (AD)^2 = 64 + 36 = 100$$

$$AC = 10.$$

As, QP is line joining midpoints of AB and BC.

$$QP = \frac{1}{2} \times 10 = 5 \text{ cm}$$

53. 2

$$\text{Giving 10\% discount} = 500 - (500 \times \frac{10}{100}) = 450$$

$$\text{Second 10\% discount} = 450 - (450 \times \frac{10}{100}) = 405$$

Hence, option 2 is correct.

54. 1

As cost price is same, twice much percentage profit is twice as much direct profit.

Let X be cost price and Y be profit.

$$X + 2Y = 78 \dots \text{(I)} \text{ and } X + Y = 69 \dots \text{(II)}$$

Eqⁿ I - Eqⁿ II gives,

$$X + 2Y = 78$$

-

$$\frac{X + Y = 69}{Y = 9}$$

So, X = 60. Hence option 1 is correct.

55. 1

$$14\% \text{ of population} = 574$$

$$1\% \text{ of population} = \frac{574}{14} = 41$$

$$100\% \text{ of population} = 4100.$$

Hence option 1 is correct.

56. 3

$$\text{Speed of train} = \frac{\text{Distance}}{\text{time}} = \frac{240}{16} = 15 \text{ m/s}$$

To convert it in km/hr: -

$$15 \times \frac{3600}{1000} = 54 \text{ Km/hr}$$

Hence option 3 is the right answer.

57. 3

We have,

$$a^2 + 1 = a \dots (I)$$

multiplying both sides by a,

$$a^3 + a = a^2$$

putting value of a from equation (I)

$$a^3 + a^2 + 1 = a^2$$

so, $a^3 = -1$.

Hence, option 3 is the answer.

58. 1

We have-

$$x + 3y = -3x + y$$

$$4x = -2y \text{ or } y = -2x$$

$$X^2/2y^2 = X^2/2(-2x)^2 = X^2/8^2 = 1/8.$$

Hence option 1 is correct.

59. 3

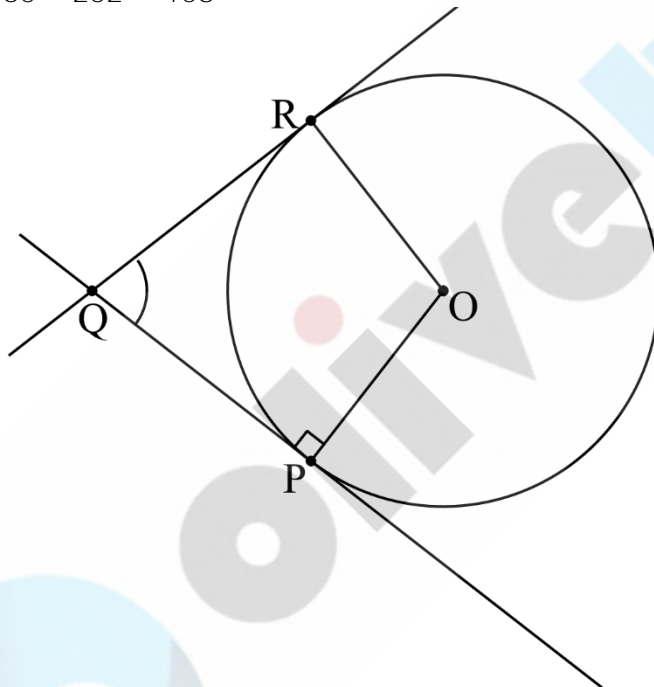
$\angle P$ and $\angle R$, are right angles. $\angle O = 72$ degree.

So, in OPQR,

$$P + Q + R + S = 360$$

$$72 + 90 + 90 + Q = 360$$

$$Q = 360 - 252 = 108^\circ$$



Hence, Option 3 is correct.

60. 2

In option 1, $8 + 7 = 15$, which is less than 18 cm.

In option 3, $6 + 4 = 10$

In option 4, $8 + 10 = 18$, which is less than 20 cm.

Hence, these three options can't create triangle.

In option 2, $8 + 15 = 23$ which is greater than 17, so in only option 2 triangle is possible.

Hence, option 2 is correct.

61. 3

$$\sin\theta + \operatorname{cosec}\theta = 2$$

$$\sin\theta + 1/\sin\theta = 2$$

$$\sin^2\theta - 2\sin\theta + 1 = 0$$

$$(\sin\theta - 1)^2 = 0$$

Therefore, $\sin\theta = 1$ and $\theta = 90^\circ$.

As, $\sin\theta = 1$, its -7^{th} power is also 1.

$$\text{So, } \sin^{-7}\theta + \operatorname{cosec}^7\theta = 1 + 1 = 2$$

Hence option 3 is the answer.

62. 1

For 25 cows and 25 hens, total feet = $100 + 50 = 150$

If we decrease cow by one and increase hen by one, total feet's will decrease by 2. If we do this procedure by 4, total feet will decrease by 8.

Hence taking 21 cows and 29 hens, total feet = $84 + 58 = 142$. Hence, option 1 is correct.

63. 4

Let there are total of X students.

$$\text{Total sum of height of all students} = Xa = 10b + (X - 10)c$$

$$Xa - Xc = 10(b - c)$$

$$X = (10(b-c))/(a-c)$$

Hence. Option 4 is correct.

64. 1

Rationalizing each part of equation separately,

$$3\sqrt{7}/(\sqrt{5}+\sqrt{2}) \times (\sqrt{5}-\sqrt{2})/(\sqrt{5}-\sqrt{2}) = 3 \times (\sqrt{7} \cdot \sqrt{5} - \sqrt{7} \cdot \sqrt{2}) / 3 = \sqrt{7} \cdot \sqrt{5} - \sqrt{7} \cdot \sqrt{2}$$

Applying same method to total equation, we get

$$3\sqrt{7}/(\sqrt{5}+\sqrt{2}) - 5\sqrt{5}/(\sqrt{2}+\sqrt{7}) + 2\sqrt{2}/(\sqrt{7}+\sqrt{5}) = \sqrt{7} \cdot \sqrt{5} - \sqrt{7} \cdot \sqrt{2} - (\sqrt{5} \cdot \sqrt{7} - \sqrt{5} \cdot \sqrt{2}) + \sqrt{2} \cdot \sqrt{7} - \sqrt{2} \cdot \sqrt{5}$$

$$= 0$$

Hence, option 1 is correct.

65. 3

We have,

$$(a+b-6)^2 + a^2 + b^2 + 1 + 2b = 2ab + 2a$$

$$a^2 + b^2 + 36 + 2ab - 12b - 12a + a^2 + b^2 + 1 + 2b = 2ab + 2a \dots\dots\dots [\text{Using formula: } (a + b - c)^2 = a^2 + b^2 + c^2 + 2ab - 2bc - 2ca]$$

$$a^2 + b^2 + 36 + 2ab - 12b - 12a + a^2 + b^2 + 1 + 2b - 2ab - 2a = 0$$

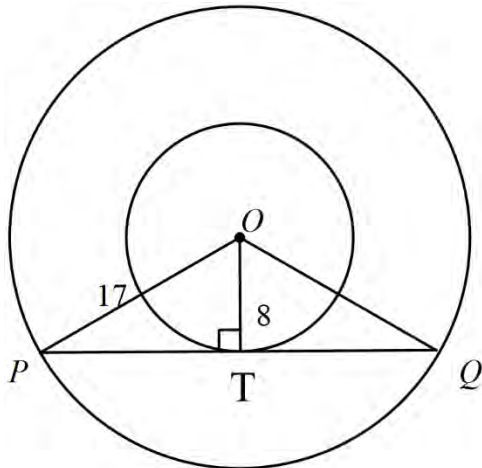
$$a^2 + b^2 - 5b - 7a + 37/2 = 0$$

$$(a - 7/2)^2 + (b - 5/2)^2 = 0$$

When we put $a = 7/2$ and $b = 5/2$, then only equation will satisfy.

Hence, $a = 7/2 = 3.5$

66. 3



From given diagram,

In triangle POT: -

$$PO^2 = PT^2 + TO^2$$

$$289 = PT^2 + 64$$

$$225 = PT^2$$

So, $PT = 15$ and $PQ = 30$.

The length of a chord of greater circle which touches the smaller circle is 30 cm.

So, option 3 is correct.

67. 1

Option 2, 3 and 4 are not perfect squares. 100489 is square of 317. Square of 316 is 99,856 which is five-digit number. So, option 1 is the right answer.

68. 2

Let, initial value of number = 100

When it decreased by 10%,

$$100 - 10 = 90$$

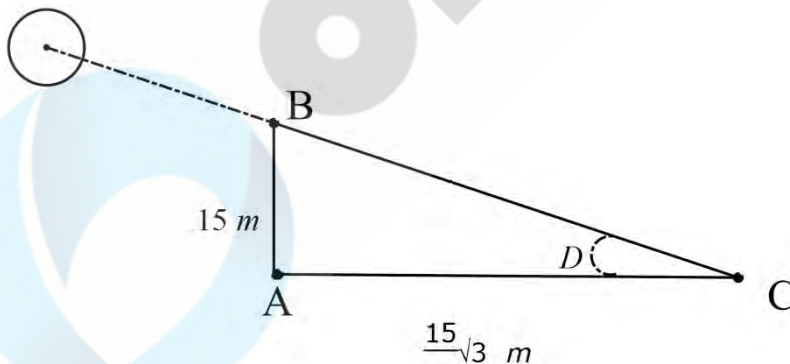
Increasing it by 10%.

$$90 + 9 = 99$$

Overall change = $\frac{1}{100} \times 100 = 1\%$ decreases.

Hence option 2 is correct.

69. 2



From given diagram, angle of elevation if sun = D

Now, $\tan D = AB / AC$

$$= 15 / (15/\sqrt{3})$$

$$= \sqrt{3}$$

$$D = \tan^{-1} \sqrt{3}$$

$$= 60^\circ$$

Hence option 2 is correct.

70. 1

$$2y \cos\theta = x \sin\theta$$

$$2y/x \sin\theta = \sec\theta \dots\dots \text{(I)}$$

Now, using another equation-

$$2x \sec\theta - y \operatorname{cosec}\theta = 3$$

$$2x * (2y/x \cdot \sin\theta) - y \operatorname{cosec}\theta = 3$$

$$4y \operatorname{cosec}\theta - y \operatorname{cosec}\theta = 3$$

$$Y \operatorname{cosec}\theta = 1$$

$$Y = \sin\theta \dots\dots \text{(II)}$$

Now, we already have-

$$2y \cos\theta = x \cdot \sin\theta$$

$$2 \sin\theta \cdot \cos\theta = x \cdot \sin\theta$$

$$X = 2 \cos\theta \dots\dots \text{(III)}$$

Using equation (II) and (III), we get -

$$X^2 + 4Y^2 = (2 \cos\theta)^2 + 4 (\sin\theta)^2$$

$$= 4(\cos^2\theta + \sin^2\theta)$$

$$= 4$$

Hence, option 1 is correct answer.

71. 3

If 6% simple interest is applied for 2 years, it will add up to 12%.

6% compound interest will add up to 12.36%. So, difference will be 0.36%.

For 7% rate, it will be 0.49%.

For 8% rate, it will be 0.64%.

for 9% rate, it will be 0.81%.

$$15,000 \times 0.36/100 = \text{Rs } 54$$

$$15,000 \times 0.49/100 = \text{Rs } 73.5$$

$$15,000 \times 0.64/100 = \text{Rs } 96$$

$$15,000 \times 0.81/100 = \text{Rs } 121.5$$

So, option 3 is correct.

72. 1

$$\text{sum of wheat and sugar production} = 30 + 10 = 40$$

$$\text{difference in production of rice and tea} = 50$$

$$\text{the ratio of sum of wheat and sugar production to difference in production of rice and tea} = 40 : 50 = 4 : 5$$

73. 2

$$\text{The production of rice and tea} = 55 + 5 = 60\%$$

$$\text{The production of wheat} = 30\%$$

$$\text{The production of rice and tea is more/greater than production of wheat by} = (60 - 30)/30 \times 100 = 100\%$$

Hence option 2 is correct.

74. 4

Total central angle is 360° for 100%.

$$\text{For } 30\%, \text{ central angle} = 360 \times 30 / 100 = 108^\circ$$

Hence option 4 is right.

75. 3

$$\text{The production of Rice in the country} = 55\%$$

$$= 5,00,000 \times 55 / 100$$

$$= 2,75,000 \text{ kg}$$

Hence option 3 is right.

76. 2

Contraband is **goods** that have been imported or exported illegally, which is exactly same as smuggling.

Juggling is the continuous tossing and catching (just like performed by joker in circus).

Baffled is totally bewildered or perplexed.

Burgled is enter (a building) illegally with intent to commit a crime, especially theft which is not illegal goods importing or exporting.

Hence, smuggled expresses same meaning and option 2 is correct.

77. 1

Lenient is someone who is not strict or who is merciful. Solid has totally different meaning than strict or lenient. Forgiving is similar word in meaning to Lenient and not opposite. Stoic is someone endures his pain without showing it, and it is not opposite to merciful. Strict is exact opposite in meaning to the lenient or merciful.

Hence option 1 is correct.

78. 2

Scarcity meaning extreme lack of something. Other words are misspelled. So, option 2 is correct.

79. 2

Sentence should be: -

He was kind enough to invite me.

Use of word "Very" is redundant. So, option 2 is the answer.

80. 2

"Have been" is used for present continues sentence. So, we cannot use have been with past participle of verb. It should be "had been made". So, option 2 is the answer.

81. 2

Correct sentence is: -

Every conceivable race and nationality had its share of suffering in the world wars.

So, option 2 is the answer.

82. 3

we use past participle of verb whenever there is a use of past tense.

Hence, option 3 is the correct answer.

83. 1

The past perfect is used when two events happened in the past, with one past action having occurred even before the other past action.

Hence, had is appropriate word to use and option 1 is the correct answer.

84. 2

Fettered means restrained with chains. Fetid is smelling unpleasantly. Fettled is to clean something. Feted means felicitated or honored.

Criminal should be restrained with chains so that he should not escape.

Hence, option 2 is the right answer.

85. 2

"Drive home" when used idiomatically, it means to emphasize (a point) with tangible or powerful demonstration. Hence option 2 is correct answer. Refer or draw are also similar to it but are not as strong words as emphasize is, which is expected in given idiom. "Find one's roots" has different meaning than "Drive home".

So, option 2 is correct answer.

86. 1

"To end in smoke" is used when someone puts efforts into something but didn't achieve any practical or concrete result. Option two is exactly opposite to what given idiom says. Option 3 depicts different meaning than expected. Option 4 shows extremity by using phrase risk everything which is not expected in question phrase. Option 1 is correct answer as it gives exact meaning of idiom given in question.

87. 3

"left handed compliment" means to say something which is pleasant apparently but it also could be insult. A subtle rebuke is harsh compliment which is not expected by question phrase. Wholesome praise is overly pleasant compliment. A mild compliment is also not the one which is used for ambiguous meaning. **"An ambiguous compliment"** is correct answer, so option 3 is correct.

88. 3

Gerontologist is the one who studies phenomenon related to old age person and aging. Pathologist is one who examines laboratory samples of body tissue for diagnostic or forensic purposes. Ornithologist is the one who studies birds. Entomologist is the one who studies insects. Hence option 3 is the correct answer.

89. 1

Pessimist is the one who tends to see bad or worst aspects of anything. Oppositely, optimist is the one who see good aspects of everything. Infallible is the one who did not make any mistakes. Hypocrite is the one who pretend to be something else than the something he is. So, option 1 is the correct answer.

90. 2

Handicraft is the object created by hand like sculpture. Handiwork is something you make by hand not necessarily it is something you have written, it can be anything you made by your hand. Thesis is something written and yet to be proved scientifically. Manuscript is story or poem or book written by hand by author. Manuscript is closest in the meaning which is expected in question. Hence option 2 is the right answer.

91. 2

Interview from Hollywood is streaming live, this is expected in the given sentence. So, it should **"came live"**. Hence, option 2 is correct.

92. 1

from sentence it is clear that his reputation is already battered or wrecked. So, if you use word **"Salvage"** instead of **"save"** then it will improve the statement by depicting **"there is little he could do to improve his wrecked reputation"**. Wreck and destroy will reverse the meaning rather than improving the sentence. Hence, option 1 is the correct answer.

93. 4

"too many important" is not proper usage. **"too much important"** and **"very much important"** depicts exactly same meaning of given sentence. So, we cannot improve sentence using any of the given options. Option 4 is the right answer.

94. 1

Farther means something placed at large distance, which is inappropriate to use in given sentence. **Much and best fits into sentence but did not improve the sentence. If we use "further" which means "if he need any more help after that then send him to me"** which improves the sentence in best possible way. Hence, option 1 is correct.

95. 2

As he jumped, he is supposed to draw within water. So, obviously we cannot use on the water. **Onto the water is also wrong usage. "Into" is used for within something and "in" is used for generic purpose which is not specific.**
So, option 2 is the correct answer.

96. 3

In 2nd **sentence of paragraph, it is mentioned that "Mandarin Chinese is spoken by millions."** which means that it is spoken by many people.
Hence, option 3 is correct answer.

97. 2

Virtuoso is the one who is expert in arts or usage of musical instrument. Ventriloquist is the one who can make like his voice is coming from somewhere else. He specialises in voice modulation. Scholar is someone expert in particular branch of study. Linguist is the one who knows more languages.
Hence, option 2 is correct.

98. 4

It is clearly mentioned in the passage "Regional variations of language are known as dialects."
Hence, option 4 is the answer.

99. 1

From the last sentence of **paragraph "English also contains French- derived words after it was ruled by French-speaking kings following the Norman Conquest."** which means **after the Norman Conquest.**
Hence, option 1 is the right answer.

100. 3

In passage it is mentioned that, **"The Anglo-Saxons, who conquered Britain at the end of the Roman Empire, spoke a Germanic language, which later became English"**. So, English is Germanic language.
Hence, option 3 is correct.

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