- 1. If DIG is coded as 25 and CUT is coded as 49, then how will KICK be coded as?
 - (1) 43
 (2) 39
 (3) 41

 - (4) 34
- 2. Select the option in which the given figure is embedded.



3. <u>A paper is folded</u> and cut as shown below. How will it appear when unfolded?



4. Select the figure that will come next in the following figure series.



- 5. Select the set in which the numbers are related in the same way as are the numbers of the following set.
 - (9, 35, 16) (1) (16, 50, 64)
 - (2) (25, 30, 4)
 - (3) (36, 55, 25)
 - (4) (81, 65, 36)
- 6. Select the set in which the numbers are related in the same was as are the numbers of the following set.
 - (3, 24, 4)
 - (1) (6, 35, 11)
 - (2) (2, 30, 8)
 - (3) (12, 84, 4) (4) (4, 72, 9)

- 7. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.
 - (1) CFIL
 - (2) GHIJ
 - (3) MOQS
 - (4) PSUX
- 8. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.
 - (1) 126
 - (2) 189
 - (3) 254
 - (4) 217
- 9. In a family of eight persons, there are two couples, each having two children. B and D are brothers and each has two children. E is the aunt of A, who is the cousin brother of C. C is the sister of H, who is the cousin brother of G. F is the wife of B. How is H related to F? (1) Nephew
 - (2) Son-in-law
 - (2) Son-(3) Son
 - (3) 5011 (4) Brot
 - (4) Brother-in-law
- 10. Arrange the following words in a logical and meaningful order.
 - I. Buy
 - II. Dinner
 - III. Market
 - IV. Vegetables
 - V. Cook
 - (1) 1, 4, 5, 3, 2
 - (2) 3, 5, 4, 1, 2
 - (3) 4, 5, 3, 1, 2
 - (4) 3, 4, 1, 5, 2
- 11. Select the Venn diagram that best illustrates the relationship between the following classes. Uncle, Relatives, Rich



12. Two different positions of the same dice are shown. What number will be at the top if 6 is at the bottom?



- 13. 'Lawyer' is related to 'Justice' in the same way as 'Arbitrator' is related to '_____'.
 - (1) Judgment
 - (2) Injustice
 - (3) Settlement
 - (4) Communication
- 14. Three of the following four words are alike in a certain way and one is different. Pick the odd word out.
 - (1) Groundnut
 - (2) Mustard
 - (3) Cumin
 - (4) Fennel
- 15. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true even if they seem to be a variance with commonly known facts decide which of the conclusions logically follow(s) from the statements.

Statements:

All rulers are machines

Some machines are costly items.

Conclusions

I. Some rulers are costly items.

- II. Some costly items are machines.
- III. All costly items are machines.
- (1) Both conclusions II and III follow
- (2) Both conclusions I and II follow
- (3) Only conclusion II follows
- (4) Only conclusions I follows
- 16. Select the option that is related to the third letter cluster in the same way as the second letter cluster is related to the first letter cluster
 - CEGI : AGEK : DFHJ : ?
 - (1) CHFI
 - (2) CGIK
 - (3) BHFL
 - (4) BDJK
- 17. select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

b_bab_bc_abbb_ba_b

- (1) cbbac
- (2) cbabc
- (3) cbbcb
- (4) bcbab

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

- 3, 7, 16, 35, ?, 153
- (1) 84
- (2) 74
- (3) 78
- (4) 63

- 19. In a code language, VICTORY is written as CIVSYRO. How will TRAITOR be written as in that language?
 - (1) RATHORT
 - (2) RTAJORT
 - (3) ARTJOTR
 - (4) ARTHROT
- 20. select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.
 - 36:84
 - (1) 27:63
 - (2) 21 : 51
 - (3) 57 : 135
 - (4) 45 : 95
- 21. Rs. 1,875 is divided among A, B and C in such a way that A's share is half of the combined share of B and C, and B's share is one-fourth of the combined share of A and C. By what amount is C's share more than that of A ?
 - (1) Rs.500
 - (2) Rs.225
 - (3) Rs.250
 - (4) Rs.200
- 22. Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair
 - Book : Thesaurus
 - (1) Tree : Forest
 - (2) Reptile : Python
 - (3) Furniture : Wood
 - (4) Tennis : Ball
- 23. Which two signs should be interchanged in the following equation to make it correct ? $12-8+12\times9+3=9$
 - (1) + and +
 - (2) + and ×
 - (3) and +
 - (4) + and -
- 24. How any squares are there in the following figure ?



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



- 26. _____ dance, performed by Buddhists to ward off evil spirits, is a dance form of Himachal Pradesh.
 - (1) Chham
 - (2) Natya
 - (3) Dham
 - (4) Gogra
- 27. The Musi and Bhima are tributaries of the river _____.
 - (1) Mahanadi
 - (2) Krishna
 - (3) Kaveri
 - (4) Brahmaputra
- 28. The Malimath Committee Report deals with:
 - (1) Judicial delays
 - (2) textile sector reforms
 - (3) criminal justice system reforms
 - (4) stock market reforms
- 29. Who attacked and looted the famous Somnath temple in 1026 AD ?
 - (1) Muhammad Ghori
 - (2) Mahmud of Ghazni
 - (3) Nadir Shah
 - (4) Genghis Khan

- 30. Which country was the first to implement Goods and Services Tax (GST) ?
 - (1) France
 - (2) USA
 - (3) Germany
 - (4) Canada

31. Which of the following is mined in the Badampahar mines of Odisha ?

- (1) Azurite
- (2) Dolomite
- (3) Bauxite
- (4) Hematite

32. Sundari, a well-known species of trees, is found in:

- (1) tropical rainforests
- (2) Himalayan mountains
- (3) tropical deciduous forests
- (4) mangrove forests

33. The Tata Iron and Steel company (TISCO) was established by Dorabji Tata in:

- (1) 1919
- (2) 1913
- (3) 1907
- (4) 1911

34. Who was the first female Director General of Police in Puducherry ?

- (1) Aswathy Tonge
- (2) Kanchan Choudhary
- (3) Kiran Bedi
- (4) Sundari Nanda

35. Which of the following elements is a metalloid ?

- (1) Tin
- (2) Bismuth
- (3) Silicon
- (4) Phosphorus
- 36. Methyl propane is an isomer of:
 - (1) n-hexane
 - (2) n-butane
 - (3) n-propane
 - (4) n-pentane
- 37. According to The Economist Intelligence Unit report "Worldwide Cost of Living Survey 2019", which of the following is NOT one of three cheapest cities in India?
 - (1) Mumbai
 - (2) Bengaluru
 - (3) New Delhi
 - (4) Chennai
- 38. Which of the following places was ruled by the Wadiyar dynasty ?
 - (1) Mysore
 - (2) Guwahati
 - (3) Jabalpur
 - (4) Patna
- 39. Name the first ever judge of the Supreme Court against whom the motion of impeachment was introduced into parliament in Independent India.
 - (1) Justice Viraswami
 - (2) Justice Ramaswami
 - (3) Justice Mahajan
 - (4) Justice Subba Rao

- 40. In March 2019, _____ was sworn in as the new chief minister of Goa, following the demise of Manohar Parrikar.
 - (1) Vasundhara Raje
 - (2) H D Kumaraswamy
 - (3) Ashok Gehlot
 - (4) Pramod Sawant

41. J.J Thomson received the Nobel Prize in Physics for the discovery of ______.

- (1) Protons
- (2) Electrons
- (3) Neutrons
- (4) Positrons

42. Which queen died fighting Mughal armies while defending Garha Katanga in 1564 ?

- (1) Rani Avantibai
- (2) Rani Rudrambara
- (3) Rani Durgavati
- (4) Rani Ahilvabai

43. Which gas in its solid state is also known as dry ice ?

- (1) Nitrogen
- (2) Carbon dioxide
- (3) Oxygen
- (4) Hydrogen

44. The Olympic Council of Asia (OCA) has decided to reintroduce _____ in the 2022 Asian Games to be held at Hangzhou, China after it was dropped in 2018.

- (1) fencing
- (2) cricket
- (3) soccer
- (4) volleyball

45. The property of catenation is predominant in ______.

- (1) sulphur
- (2) nitrogen
- (3) silicon
- (4) carbon

46. 'Thoda' a sport dance belongs to which of the following states?

- (1) Sikkim
- (2) Andhra Pradesh
- (3) Haryana
- (4) Himachal Pradesh
- 47. The lone medal for India was won by _____ at the 38th Gee Bee Boxing Tournament held at Helsinki, Finland.
 - (1) Kavinder Singh Bisht
 - (2) Naveen Kumar
 - (3) Mohammed Hussamuddin
 - (4) Shiva Thapa

- (1) 23rd
- (2) 42nd
- (3) 45th
- (4) 33rd

^{48.} The _______ edition of the India-Indonesia coordinated patrol (IND-INDO CORPAT) held from 19 March to 4th April 2019 was inaugurated at Port Blair, Andaman and Nicobar Islands.

- 49. _____ is the founder of Facebook.
 - (1) Mark Zuckerberg
 - (2) Brian Acton
 - (3) Jimmy Wales
 - (4) Larry Page

50. The Indian National Association was established in 1876 by ______ in Calcutta.

- (1) Badruddin Tyabji
- (2) V K Chiplunkar
- (3) Anand Mohan Bose
- (4) Sisir Kumar Ghosh
- 51. A circle is inscribed in a triangle ABC. It touches the sides AB, BC and AC at the points R, P and Q respectively. If AQ = 4.5 cm, PC = 5.5 cm and BR = 6 cm, then the perimeter of the triangle ABC is:
 - (1) 30.5 cm
 - (2) 28 cm
 - (3) 32 cm
 - (4) 26.5 cm
- 52. The table shows the production of different types of cars (in thousands)

Years	2012	2013	2014	2015	2016
Cars					
А	30	35	48	45	56
В	42	48	40	38	56
С	48	36	38	35	44
D	51	24	30	46	54
Е	20	42	40	35	43

If the data related to the production of cars of type E is represented by a pie chart, then the central angle of the sector representing the data of production of cars in 2013 will be: (1) 102°

- (1) 102
- (2) 84° (3) 70°
- $(3) 70^{\circ}$
- (4) 80°
- 53. A truck covers a distance of 384 km at a certain speed. If the speed is decreased by 16 km/h, it will take 2 hours more to cover the same distance. 75% of its original speed (in km/h) is:
 - (1) 45
 - (2) 54
 - (3) 48
 - (4) 42
- 54. The ratio of the ages of A and B four years ago was 4 : 5. Eight years from now, the ratio of the ages of A and B will be 11 : 13. What is the sum of their present ages ?
 - (1) 80 years
 - (2) 96 years
 - (3) 72 years
 - (4) 76 years
- 55. In \triangle ABC, F and E are the points on sides AB and AC, respectively such that FE||BC and FE divides the triangle in two parts of equal area. If AD \perp BC and AD intersects FE at G, then GD : AG?
 - (1) √2 : 1
 - (2) (√2-1) : 1
 - (3) 2√2 : 1
 - (4) (√2+1) : 1

56. If 4 – $2\sin^2\theta$ - 5 $\cos\theta$ = 0, 0°< θ <90°, then the value of $\sin\theta$ +tan θ is :

- (1) 3√2/2
- (2) 3√3/2
- (3) 3√2
- (4) 2√3
- 57. The table shows the production of different types of cars (in thousands).

Years	2012	2013	2014	2015	2016
Cars					
А	30	35	48	45	56
В	42	48	40	38	56
С	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

What is the ratio of the total production of cars of type A in 2014 and type C in 2013 taken together to the total production of cars of type B in 2016 and type E in 2015 taken together? (1) 12 : 13

- (2) 11 : 12
- (3) 10 : 11
- (4) 12 : 11
- 58. If decreasing 120 by x% gives the same result as increasing 40 by x%, then x% of 210 is what percent less than (x-20)% of 1050 ?
 - (1) 33 1/3
 - (2) 18
 - (3) 66 2/3
 - (4) 20
- 59. If $(5\sqrt{5x^3}-81\sqrt{3y^3}) \div (\sqrt{5x}-3\sqrt{3y}) = (Ax^2+By^2+Cxy)$, then the value of $(6A+B-\sqrt{15C})$ is (1) 10
 - (1) 1((2)) 9
 - (2) 5 (3) 15
 - (4) 12
- 60. If a nine-digit number 985x3678y is divisible by 72, then the value of (4x-3y) is
 - (1) 5
 - (2) 4
 - (3) 6
 - (4) 3

61. If $Sin\theta = (p^2-1)/(p^2+1)$, then $cos\theta$ is equal to:

- (1) $2p/(1+p^2)$
- (2) p/(p²-1)
- (3) $p/(1+p^2)$
- (4) $2p/p^2-1$
- 62. The ratio of the efficiencies of A, B and C is 2 : 5 : 3. Working together they can complete a work in 27 days B and C together can complete 4/9 th part of that work in:
 - (1) 27 days
 - (2) 15 days
 - (3) 17 1/7 days
 - (4) 24 days
- 63. The average of twelve numbers is 42. The average of the last five numbers is 40 and that of the first four numbers is 44. The 6th number is 6 less than the fifth and 5 less than the 7th number. The average of the 5th and the 7th numbers is:
 - (1) 44
 - (2) 44.5
 - (3) 43
 - (4) 43.5

64. If x+y+z = 19, $x^2+y^2+z^2=133$ and $xz = y^2$, then the difference between z and x is:

- (1)5
- (2) 3
- (3) 6
- (4) 4
- 65. $(2+\tan^2\theta+\cot^2\theta)/(\sec\theta\csc\theta)$ is equal to :
 - (1) $\cot\theta$
 - (2) $\cos\theta\sin\theta$
 - (3) $\sec\theta\csc\theta$
 - (4) $tan\theta$
- 66. In a circle of radius 10 cm with centre O, PQ and PR are two chords each of length 12 cm. PO intersects chord QR at the points S. The length of OS is:
 - (1) 2.8 cm
 - (2) 2.5 cm
 - (3) 3.2 cm
 - (4) 3 cm
- 67. A sum amounts to Rs.8,028 in 3 years and to Rs.12,042 in 6 years at a certain rate percent per annum, then what is the amount after 1 year?
 - (1) Rs.5,352
 - (2) Rs.5,235
 - (3) Rs.5,325
 - (4) Rs.5,253
- 68. The value of $2 \times 3 \div 2$ of $3 \times 2 \div (4 + 4 \times 4 \div 4)$ of $4 4 \div 4 \times 4)$ is:
 - (1) 8
 - (2) 1
 - (3) 4
 - (4) 2
- 69. After giving two successive discounts each of x% on the marked price of an article total discount is Rs.259.20. If the marked price of the article is Rs.720, then the value of x is:
 - (1) 18
 - (2) 24
 - (3) 20
 - (4) 25
- 70. A solid cube of volume 13824 cm³ is cut into 8 cubes of equal volumes. The ratio of the surface area of the original cube to the sum of the surface areas of three of the smaller cubes is: (1) 2:3

 - (2) 4:3
 - (3) 8:3(4) 2:1
- 71. The table shows the production of different types of cars (in thousands)

Years	2012	2013	2014	2015	2016
Cars					
А	30	35	48	45	56
В	42	48	40	38	56
С	48	36	38	35	44
D	51	24	30	46	54
Е	20	42	40	35	43

The total production of type B cars in 2012, 2014 and 2015 taken together is approximately what percent more than the total production of type A cars in 2013 and 2016 taken together? (1) 31.9

- (2) 33.2
- (3) 36.3
- (4) 34.4

72. The table shows the production of different types of cars (in thousands)

Years	2012	2013	2014	2015	2016
Cars					
А	30	35	48	45	56
В	42	48	40	38	56
С	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

The number of years, in which the production of cars of type B is less than the average production of type D cars over the years is:

- (1) 4
- (2) 1

(3) 3

(4) 2

73. A person sold an article at a loss of 15% had he sold it for Rs.30.60 more, he would have gained 9%. To gain 10% he should have sold it for:

- (1) Rs.140.25
- (2) Rs.132
- (3) Rs.130
- (4) Rs.128.40
- 74. In a $\triangle ABC$, the bisectors of $\angle B$ and $\angle C$ meet at point O, inside the triangle. If $\angle BOC = 122^{\circ}$, then the measure of $\angle A$
 - (1) 64°
 - (2) 62°
 - (3) 72°
 - (4) 68°

75. If $x^4+x^{-4} = 194$, x>0, then the value of $(x-2)^2$ is:

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

Directions for Questions 76 to 80: In the following passage some words have been deleted, fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank. Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for (1)_____ who spot the most errors. It's running (2)_____ two-week campaign calling on Koreans and foreigners (3)_____ to keep their eyes peeled for (4)_____ in English, Japanese and Chinese text, the Korea Times reports. There's a (5)_____ focus on public transport signs, maps and information signs at historic sites as part of a drive to improve the experience of foreign tourists in the South Korean capital.

76. Select the most appropriate option for blank No.1.

- (1) this
- (2) those
- (3) that
- (4) these

77. Select the most appropriate option for blank No.2.

- (1) one
- (2) the
- (3) an
- (4) a

78. Select the most appropriate option for blank No.3

- (1) same
- (2) similarly
- (3) alike
- (4) likely

- 79. Select the most appropriate option for blank No.4
 - (1) guffaws
 - (2) blunder
 - (3) oversight
 - (4) mistakes

80. Select the most appropriate option for blank No.5

- (1) particular
- (2) important
- (3) signifying
- (4) meticulous
- 81. Select the synonym of the given word.
 - COERCE
 - enchant
 - (2) pressurize
 - (3) cajole
 - (4) leave
- 82. In the sentence identify the segment which contains the grammatical error.
 - We had to decline several orders in case that the production was held up due to labour strike. (1) in case that
 - (2) the production was held up
 - (3) due to labour strike
 - (4) we had to decline

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

- His company has the ______ of producing the best cricket balls in the country.
- (1) opinion
- (2) brand
- (3) reputation
- (4) position
- 84. Select the antonym of the given word.
 - EXPANSION
 - (1) inflation
 - (2) augmentation
 - (3) extension
 - (4) compression
- 85. Select the antonym of the given word.
 - SCARCE
 - (1) scanty
 - (2) few
 - (3) seldom
 - (4) plentiful
- 86. Select the wrongly spelt word.
 - (1) calander
 - (2) career
 - (3) callous
 - (4) carriage
- 87. Select the most appropriate word to fill in the blank.
 - Around sixty bands in colourful ______ took part in the Notting Hill Carnival.
 - (1) clothings
 - (2) costumes
 - (3) apparels
 - (4) dressing

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

A person, animal or plant much below the usual height

- (1) wizard
- (2) dwarf
- (3) creature
- (4) witch

89. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

The workers of this textile factory <u>demand higher wages</u> for a long time.

- (1) have been demanding higher wages
- (2) demanded higher wages
- (3) No improvement
- (4) has demanded higher wages
- 90. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.
 - If you park your car here, the traffic police $\underline{has fined you}$.
 - (1) will fine you
 - (2) No improvement
 - (3) fine you
 - (4) fined you

91. Given below are four jumbled sentences. Select the option that gives their correct order.A. The café's owner says he's interested in conservation and hopes customers will realise the animals are worth saving, even though they often have a bad reputation.

B. None of them are venomous, meaning customers can get up close and personal with the reptiles.

C. Here you sip your drink in the company of 35 snakes.

D. This café, which has just opened in Tokyo, is not for the faint-hearted.

- (1) DBCA
- (2) DCBA
- (3) ACDB
- (4) ABDC
- 92. Given below are four jumbled sentences. Select the option that gives their correct order. A. An environmental group performed a necropsy on the animal and found about 40 kilograms of plastic, including grocery bags and rice sacks.

B. A 4.7-metre-long whale died on Saturday in Philippines where it was stranded a day earlier.
C. "It's very disgusting and heart-breaking," he said. "We've done necropsies on 61 dolphins and whales in the last 10 years and this is one of the biggest amounts of plastic we've seen."
D. "The animal died from starvation and was unable to eat because of the trash filling its stomach," said Darrell Blatchley, Director of D' Bone Collector Museum Inc.

- (1) ABDC
- (2) DABC
- (3) BADC
- (4) BACD

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

To play ducks and drakes

- (1) to use recklessly
- (2) to change places
- (3) to be friendly
- (4) to act cleverly

- 94. In the sentence identify the segment which contains the grammatical error. Cyclone Idai killed at least 157 people in Zimbabwe and Mozambique although it tore across Southern Africa.
 - (1) Cyclone Idai killed
 - (2) it tore across
 - (3) although
 - (4) at least 157 people
- 95. Select the correct active form of the given sentence.
 - Every passing vehicle was being thoroughly checked by the guards.
 - (1) The guards were thoroughly checking every passing vehicle.
 - (2) The guards have thoroughly checked every passing vehicle.
 - (3) Every passing vehicle were thoroughly checking the guards.
 - (4) The guards have been thoroughly checking every passing vehicle.
- 96. Select the wrongly spelt word.
 - (1) exploite
 - (2) explicit
 - (3) expire
 - (4) explode
- 97. Select the synonym of the given word.
 - CHRONIC
 - (1) ordinary
 - (2) persistent
 - (3) common
 - (4) temporary
- 98. Select the most appropriate meaning of the given idiom.
 - At daggers drawn
 - (1) deceiving somebody
 - (2) without hope
 - (3) friendly with each other
 - (4) bitterly hostile
- 99. Select the word which means the same as the group of words given. A student who idly or without excuse absents himself/herself from school
 - (1) truant
 - (2) vagrant
 - (3) itinerant
 - (4) migrant
- 100. Select the correct passive form of the given sentence.
 - Do not buy medicines without the doctor's prescription.
 - (1) Medicines should not be bought without the doctor's prescription
 - (2) Medicines need not be bought without the doctor's prescription
 - (3) Medicines might not be bought without the doctor's prescription
 - (4) Medicines could not be bought without the doctor's prescription

Answer keys

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

Solutions

1. **2** DIG = 4+9+7 = 20 +5 = 25 CUT= 3+21+20 = 44 +5 = 49 Similarly, KICK = 11+9+3+11 = 34 +5 = 39 Hence option b is correct.



Option d is the correct answer

3. **4**

When the paper is unfolded it appears as in option d

4. **4**

In every step the orientation of vertical lines changes, in every alternate step one vertical line and one horizontal line is added. In the next step, the figure will look as in option d. So option d is correct.

5. **3**

The logic followed in the numbers is given as $(3^2, (3+4)*5, 4^2)$ Similarly in option c, $(6^2, (6+5)*5, 5^2)$ Hence option c is correct.

6. **4**

The logic followed in the numbers is given as (3,3*4*2,4) Similarly in option d, (4,4*9*2,9) Hence option d is correct.

7. **4**

C__F_I_L GHIJ M_O_Q _ S **P__S_U__X**

Except option d all the other options have same gap between the letters in the cluster.

8. **3**

126/7=18 189/7=27 217/7=31 Except 254 all the other numbers are multiples of 7. Hence option c is correct.

From the given information, the family can be represented as below:



H is the Nephew of F. Hence option a is correct.

10.**4**

The given words can be arranged in the logical order as Market \rightarrow Vegetables \rightarrow Buy \rightarrow Cook \rightarrow Dinner

11.**4**

The given classes can be represented as below:



12. **4**

From the given positions of the dice, in each position we get two adjacent faces of 1 which are different.

So from that we can find 1 is facing 4.

Either 6 or 5 can face 3.

If 5 faces 3, then on inverting the dice we don't get 3 to the left of 1. Hence 3 is facing 6 and 2 is facing 5.

Hence option b is correct

Alternate solution:

From the two cubes we can find the number facing 6,

Consider the number which is common in two cubes

Starting from that number count the numbers in either clock wise or anti clock wise manner in both the cubes.

Position 1	1	5	6
Position 2	1	3	2

We can find that 5 is facing 3 and 6 is facing 2.

13. **3**

The Profession of the lawyer is to get justice to the people , in the same way the Job of the Arbitrator is to make the settlement among the people. Hence option c is correct.

14. **1**

Except Groundnut, all others are flowering plants.



From the given representation, some rulers being costly items is a possibility but not definite. Hence conclusion I is invalid.

All costly items being Machines is also a possibility but not definite.so conclusion III is invalid. Some costly items are machines is a conclusion which is valid. Hence, Only conclusion II follows.

16. **3**

The Logic followed in the given question is

C + 2 = E E + 2 = G G + 2 = I C - 2 = A A + 4 = E E + 2 = GG + 4 = K

- Similarly,
- D+ 2=F
- F + 2 = H
- H + 2=J
- D 2= B
- B + 4 = F
- F + 2=H
- H + 4=L

Hence option C is correct.

17. **3**

Bcbabb/bcbabb/bcbabb Hence option c is correct.

18. **2**

The given number series are based on the logic 3*2 + 1 = 7 7*2 + 2 = 16 16*2 + 3 = 35 35*2 + 4 = 74 74*2 + 5 = 153Hence option b is correct.

19.**4**

VIC T ORY \rightarrow CIV S YRO The first three letters of the given word is written in reverse order and the 4th letter is coded with the previous letter in alphabet series and last three letters also written in reverse order. Similarly TRA I TOR \rightarrow ART H ROT Hence option d is correct

15. **3**

The number-pair is related on the logic, 12*3 : 12*7 In the same way 9*3: 9*7 Hence option a is correct

21. **3**

Let the shares of A,B and C be a,b,c respectively a+b+c=1875---(1)a=(1/2) b+c 2a-b-c=0---(2) From (1) and (2), we get a+b+c+2a-b-c=18753a=1875 a=625 b = (1/4) a + cb = (1/4)625 + c4b=625+c 4b-c=625-----(3) From (1) and (3) a+b+c+4b-c=1875+625 5b=1875 b=375 From(1), a+b+c=1875 c=1875-(625+375) c=875 The share of C is more than A by 250. Hence option c is correct. **Alternate solution:** From the data given in the question, Let the shares of A, B and C be a,b,c respectively To find the ratio of a,b,c: a=(1/2)b+c $a/(b+c) = \frac{1}{2} - - - - (1)$ b = (1/4) a + cb/(a+c)=1/4----(2)to make the sum of a, b and c equal, we have to multiply numerator and denominator of (1) with 5 and (2) with 3 as the sum of a, b and c will always remains constant a/(b+c)=5/10b/(a+c)=3/12from the new equations we can find the parts of a,b,c as a=5,b=3,c=7 the shares of a,b,c are in ratio of 5:3:7, the difference between the share of a and c = 2/9 * 1875 = 250

22. **2**

Thesaurus is one of a type of book, similarly Python is a type of reptile. Hence option b is correct.

From option a by interchanging signs + and \div , we get LHS=12-8 \div 12×9+3=12-6+3=9=RHS From option b by interchanging signs + and ×, we get LHS=12-8×12+9 \div 3=-81 From option c by interchanging signs – and \div , we get LHS=12 \div 8+12×9-3=106.5 From option d by interchanging signs + and –, we get LHS=12+8-12×9 \div 3=-16 Hence option a is correct.





There are 14 squares in the given figure. They are ABCD, AEFG, EBGH, GHID, FGCI, FEHI, ALJK, LEKM, KMNG, JKFN, GOPQ, OHQR, QRSD, PQSI.

25.**4**



Option d is correct.

26. **1**

Chham dance is splendid dance performed by the Buddhist monks.

The dance is known for the elaborate mask, headgear and costume of the performers and is very popular in Tibetan settlement areas of Himachal Pradesh, such as Lahaul & Spiti, Ladakh and Kinnaur.

The villagers gather to witness this magnificent dance show, also known as the 'Devil Dance'.

27. **2**

The Musi and Bhima are tributaries of the river Krishna.

Krishna River rises at Mahabaleswar in Maharashtra and meets the Bay of Bengal at Hamasaladeevi in Andhra Pradesh.

It flows through Maharashtra, Andhra Pradesh and Karnataka.

The river has several tributaries, but Tungabhadra is the principal tributary. Other tributaries include the Mallaprabha, Koyna, Bhima, Ghataprabha.

The Malimath Committee Report constituted to give recommendations on **reforms in the criminal justice system.**

The committee submitted its report to Deputy Prime Minister L.K.Advani in 2003. This involved reviewing the Code of Criminal Procedure (CrPC), 1973, the Indian Evidence Act, 1872, and the Indian Penal Code (IPC), 1860.

29. **2**

Mahmud Ghazni known as Mahmud of Ghazni, who ruled Ghazni from 971 to 1030 AD. He made very first attack in 1001 to plunder the wealth of India. He attacked India 17 times on India. He made his 16th attack on the Somnath temple in 1025 just to plunder the gold.

30. **1**

France was the first country to implement the GST in 1954.

Some of the countries with a GST include Canada, Vietnam, Australia, Singapore, United Kingdom, Monaco, Spain, Italy, Nigeria, Brazil, South Korea, and India.

The goods and services tax is a value-added tax levied on most goods and services sold for domestic consumption.

GST is paid by consumers, but it is remitted to the government by the businesses selling the goods and services. GST provides revenue for the government.

31.**4**

Hematite is mined in the Badampahar mines of Odisha.

The Iron ore deposits are found in Badampahar mines of Odisha. The high-grade hematite ores are also found there. The Kudremukh iron ore deposits are known to be one of the largest in the world.

32. **4**

Sundari is one of the species of trees found **in mangrove forests**. The Sunderbans have been named after these trees.

They are found in the Sunderbans delta formed by the rivers Ganga and Brahmaputra in West Bengal.

33. **3**

On 26th August **1907**, the Tata Iron and Steel Company (now Tata Steel Limited) was registered and shares were issued to the Indian investors. The company was registered by Dorabji Tata.

The Steel Company obtained its first collieries in 1910 and the first ingot of steel was rolled out in February 1912.

34. **4**

Sundari Nanda was the first woman Director General of Police (DGP) of Union Territory of Puducherry. She is a 1988 AGMU cadre Indian Police Service officer in the rank of ADGP. She was transferred from the Government of the National Capital Territory of Delhi to Puducherry.

The first woman IPS officer of the country, Kiran Bedi is the Lt Governor of the Union Territory.

35. **3**

Silicon is an example of metalloid.

A metalloid is an element that has properties that are intermediate between those of metals and non-metals. Metalloids can also be called semimetals.

On the periodic table, the elements coloured yellow, which generally border the stair-step line, are metalloids.

The six commonly recognised metalloids are boron, silicon, germanium, arsenic, antimony, and tellurium.

Methyl propane is an isomer of **butane.**

According to IUPAC nomenclature, the isomers of Butane are simply butane and 2-methylpropane.

Isomers are molecules that have the same molecular formula but different chemical structures. In the case of butane, its two isomers will have these structural formulas.

37. **1**

The cheapest Cities in India are **Bengaluru, Chennai and New Delhi**.

World's cheapest cities include Caracas (Venezuela), Damascus (Syria), Tashkent (Uzbekistan), Almaty (Kazakhstan), Karachi (Pakistan), Lagos (Nigeria), Buenos Aires (Argentina).

The Economist Intelligence Unit has released the report of the Worldwide Cost of Living Survey 2019.

Singapore topped the rankings for the sixth consecutive year joined by Hong Kong and Paris.

38. **1**

The Wodeyar dynasty or Wadiyar dynasty ruled over the Kingdom of **Mysore** from 1399 to 1947.

It is the only royal family in India that has ruled over a kingdom for more than 500 years. The rule of this royal family extending over 5 centuries was headed by 25 kings.

39. **2**

Justice V Ramaswami was the judge of the Supreme Court and the first judge against whom removal proceedings were initiated in independent India.

The Constitution provides for removal of a Supreme Court or High Court judge only on ground of "proven misbehaviour" through an impeachment motion in both the Houses of Parliament under the Judges Inquiry Act, 1968.

40.**4**

The Bhartiya Janata Party's **Pramod Sawant** took oath as the chief minister of Goa. He took over from former defence minister and four-time CM of Goa Manohar Parrikar. The new government has two deputy chief ministers, Goa Forward Party chief Vijai Sardesai and Maharashtrawadi Gomantak Party MLA Sudin Dhavalikar, from the two small parties backing BJP in the coastal state.

41. **2**

JJ Thomson received the Nobel Prize in Physics for the discovery of **electrons.** He awarded the Nobel Prize for his theoretical and experimental investigations on the conduction of electricity by gases.

42. **3**

Rani Durgavati died fighting Mughal armies while defending Garha Katanga in 1564. Rani Durgavati ruled Gondwana as a ruling queen from 1550 to 1564. She had to take control of the administration after his husband Dalpat Shah's death in 1550.

The Malwa and Rewa region of Gondwana came under the control of the Mughals. This resulted in the battle of Gondwana and she defended her country single-handedly. Though she managed to chase the Mughals away, she got injured badly. After realising that she was going to be defeated, she killed herself with a dagger.

43. **2**

Carbon dioxide is known as Dry ice.

It is used primarily as a cooling agent. Its advantages include lower temperature than that of water ice and not leaving any residue.

It is extremely cold and sublimates into carbon dioxide gas. So, it is useful for a wide variety of projects.

The Olympic Council of Asia (OCA) has decided to reintroduce **Cricket** in the 2022 Asian Games to be held at Hangzhou, China after it was dropped in 2018.

Earlier Cricket had featured in 2010 and 2014 Asian Games. In 2014, Sri Lanka and Pakistan won the men's and women's gold and in 2010 Bangladesh and Pakistan claimed the top honours. Indian Cricket Teams did not participate in both the editions.

45.**4**

The property of catenation is predominant in **Carbon.**

Catenation occurs in carbon through covalent bonds and further result into longer structures and chains. This happens because the outer shell of carbon has got four valence electrons. The property of self-linking of the same elements through covalent bonds to form long straight chain or cyclic rings is called catenation.

46. **4**

'Thoda' a sport dance belongs to Himachal Pradesh.

The sport demands excellent expertise in archery. The main weapons needed for Thoda are bows and arrows.

The whole concept of the sport is to create a highly energetic atmosphere with non-stop leg kicking on one-hand and constant attempts to hit the target on the other.

47. **1**

The lone gold medal for India was won **by Kavinder Singh Bisht**. He won against Indian counterpart Mohammed Hussamuddin in summit clash in the 56kg category.

The 38th Gee Bee Boxing Tournament was held at Helsinki, Finland. Mohammed Hussamuddin settled for silver.

Other Silver medals for India were won by Govind Kumar Sahani (49kg), Shiva Thapa (60kg) ,Mohammed Hussamuddin (56kg) and Dinesh Dagar (69kg).

48.**4**

The **33**rd edition of the India-Indonesia coordinated patrol (IND-INDO CORPAT) held from 19 March to 4th April 2019 was inaugurated at Port Blair, Andaman and Nicobar. Navies of both countries have been carrying out coordinated patrolling twice a year since 2002 to keep the Indian Ocean region (IOR) safe and secure for commercial shipping and international trade.

49. **1**

Mark Zuckerberg is the founder of Facebook. It was launched in 2004.

The Facebook service can be accessed from devices with Internet connectivity, such as personal computers, tablets and smartphones.

It is headquartered in California, USA.

50. **3**

Indian National Association was the first declared Nationalist Organization founded in British India by Surendranath Banerjee and **Anand Mohan Bose in 1876.** It was originally established as Bharat Sabha and held its first annual conference in Calcutta

It was originally established as Bharat Sabha and held its first annual conference in Calcutta. It merged in INC in 1885.

From the given data



Tangents drawn from a point to the circle are equal So,



The perimeter of triangle ABC = 6+6+5.5+5.5+4.5+4.5 = 32 cm

52.2

Total type E car produced = 20 + 42 + 40 + 35 + 43 = 180Type E cars produced in 2013 = 42 $180 \text{ cars} = 360^{\circ}$ $1 \text{ car} = 360/180 = 2^{\circ}$ $42 \text{ cars} = 2*42 = 84^{\circ}$.

Let the speed and time of the truck be s and t respectively 384 = stAnd, 384 = (s-16)(t+2)st = st + 2s - 16t - 3232 = 2s -16t s = 16 + 8t384 = (16+8t)t $t^2 + 2t - 48 = 0$ t = -8, 6 speed = 384/6 = 64km/h 75% of 64 = 48 km/h Alternative method: For any such question in which a certain distance D is covered in time T. now, it takes p hour more or less for covering the same distance D with the speed increased or decreased by q km/hr. If D is a multiple of g then short-trick can be used Write all the multiples of q in pair of two

like for this question 384 is a multiple of 16 D= 384, q = 16 and p = 2hours 16, 32 (divide 384 by both 16 and 32, 384/16 = 24 and 384/32 = 12 the difference 24-12 is not equal to p) 32, 48 (384/32 = 12 and 384/48 = 8 the difference 12-8 is not equal to p) 48, 64 (384/48 = 8 and 384/64 = 6 the difference 8-6=2 and also equal to p) 50, for pair 48 and 64 are satisfying our condition 64km/hr is the original speed and 48km/hr is the reduced speed 75% of 64km/hr = 48km/hr

54. **1**

Let the age of A and B four years ago be 4x and 5x respectively 4x+12/5x+12 = 11/1352x + 156 = 55x + 1323x = 24X =8 The age of A and B four years ago be 32 and 40 respectively Sum of their present ages = 32+4+40+4=80 years **Alternative method:** ratio of the ages of A and B four years ago was 4 : 5 Eight years from now, the ratio of the ages of A and B will be 11:13 Step 1: make the difference between the ratio equal (11-4 = 7 and 13-5 = 8 are not equal)To equal the difference between the ratio multiply the difference of the numbers of one ratio to other 5-4 = 1 to be multiplied with 11: 13 and 13- 11 = 2 to be multiplied with 4:5 Now the new ratio For the ages of A and B four years ago = 8:10For the ages of A and B 8 years for now = 11: 13The common difference between them = 3 (11-8) = 3 and (13-10) = 3Step 2: Let the common difference = 3xThis difference is equal to the difference between the years of their age, like in this question it is 12 years So, 3x = 12X = 4Age of A four years ago = 8*4 = 32Age of B four years ago = $10^* 4 = 40$ Sum of their present age = 32+4+40+4=80 years

From the given data,



 $\begin{array}{l} (5\sqrt{5}x^{3}-81\sqrt{3}y^{3}) \div (\sqrt{5}x-3\sqrt{3}y) \\ A^{3} - B^{3} = (A - B) (A^{2}+B^{2}+AB) \\ ((\sqrt{5}x-3\sqrt{3}y)(5x^{2}+27y^{2}+3\sqrt{15}xy))/(\sqrt{5}x-3\sqrt{3}y) \\ (5x^{2}+27y^{2}+3\sqrt{15}xy) = (Ax^{2}+By^{2}+Cxy) \\ A=5, B=27, C= 3\sqrt{15} \\ (6A+B-\sqrt{15C}) \\ 6^{*}5 + 27 - \sqrt{15}^{*}3\sqrt{15} = 12 \end{array}$

60. **2**

If a number is divisible by 72 it must be divisible by 8 and 9 For 8 last 3 digit of the number must be divisible by 8 For 9 the sum of the digits of the number must be divisible by 9 78y must be divisible by 8 then the possible value of y is 4 So for the divisibility of 9 9+8+5+x+3+6+7+8+4 must be divisible by 9 50 +x must be divisible by 9 Possible value of x is 4 (4x-3y)4*4-3*4 = 4

61. **1**

Sin θ = (perpendicular / hypotenuses) Sin θ = (p²-1)/(p²+1) By comparing Perpendicular = (p²-1) Hypotenuses = (p²+1) Base² = Hypotenuses² - Perpendicular² Base = 2p Cos θ = base/ hypotenuses = 2p/(1+p²)

62. **2**

Let the efficiency of A, B and C are 2x, 5x and 3x respectively Total number of days required to complete the work = 27 Total work = 27 * 10x = 270x $4/9^{th}$ part of total work = 120xTime required by B and C to complete $4/9^{th}$ of total work = 120x/8x = 15 days

63. **2**

Sum of total 12 number = $12^* 42 = 504$ Sum of last 5 number = $5^* 40 = 200$ Sum of first 4 number = $4^* 44 = 176$ Sum of 5^{th} , 6^{th} and 7^{th} number = 504 - 200 - 176 = 128Let 5^{th} number = x Then 6^{th} number = x-6 7^{th} number = x - 1 x+x - 1 + x - 6 = 128 x = 45The average of the 5^{th} and the 7^{th} numbers is 44.5 64. **1** $(x+y+z)^{2} = x^{2}+y^{2}+z^{2} + 2xy + 2yz + 2xz$ 361 = 133 + 2(xy + yz + xz) xy + yz + xz = 114 y (x+y+z) = 114 y = 6 x + z = 13 xz = 36 $(x + z)^{2} = x^{2} + z^{2} + 2xz$ $x^{2} + z^{2} = 169 - 72 = 97$ $(x - z)^{2} = 97 - 72 = 25$ x - z = 5

65. **3**

 $(\tan\theta + \cot\theta)^2 = 2 + \tan^2\theta + \cot^2\theta$ $\tan\theta = \sin\theta/\cos\theta$ $\cot\theta = \cos\theta/\sin\theta$ $((\sin\theta/\cos\theta + \cos\theta/\sin\theta))^2 = 1/\cos^2\theta\sin^2\theta$ $= \sec^2\theta\csc^2\theta/\sec^2\theta/\sec\theta = \sec\theta\csc^2\theta$





Radius always bisect the chord at 90° angle So, $\angle PSQ \text{ AND } \angle OSQ = 90^{\circ}$ PO = 10 Let PS = x then OS = 10 -x According to Pythagoras theorem, $12^2 - x^2 = 10^2 - (10 - x)^2$ $144 - x^2 = 100 - 100 - x^2 + 20x$ X = 7.2

OS = 10 - 7.2 = 2.8cm

67. **1**

Interest for 1 year = (12042 - 8028)/3 = 1338Principal = 8028 - 3*1338 = 4014Amount after 1 year 4014 + 1338 = 5352

68. **4**

 $2 \times 3 \div 2$ of $3 \times 2 \div (4 + 4 \times 4 \div 4 \text{ of } 4 - 4 \div 4 \times 4)$ $\Rightarrow 2 \times 3 \div 2$ of $3 \times 2 \div (4 + 4 \times 4 \div 16 - 4 \div 4 \times 4)$ $\Rightarrow 2 \times 3 \div 6 \times 2 \div (1)$ = 2

MP= 720 SP = 720 - 259.2 = 460.8 $SP = 720(1-(X/100))^2$ $460.8 = 720(1-(X/100))^2$ $64/100 = (1-(X/100))^2$ X = 20

70. **2**

Let the volume of the big cube is $8x^3$ Volume of each small cube = $1x^3$ Side of big cube = 2xSide of each small cube = 1xSurface area of big cube = $6 * 2x * 2x = 24x^2$ Surface area of each small cube = $6x^2$ The ratio of the surface area of the original cube to the sum of the surface areas of three of the smaller cubes = $24x^2 : 3*6x^2 = 4:3$

71. **1**

The total production of type B cars in 2012, 2014 and 2015 = 42+40+38 = 120 the total production of type A cars in 2013 and 2016 = 35 + 56 = 91 required percent = (120-91)/91 * 100 = 31.9 approx

72.**4**

Average production of D over the years = (51+24+30+46+54)/5 = 205/5 = 41Production of B is less in 2014 and 2015 than the average production of D over the years

73. **1**

Let CP =100x SP = 85xIn case of 9% profit the SP would be 109x The difference in SP = 109x - 85x = 24x24x = 30.60X = 1.275 CP = 127.5 SP after 10% gain = 140.25

74. **1**

In case of angle bisector, $\angle BOC=90^{\circ} + (\angle A/2)$ $122^{\circ} = 90^{\circ} + (\angle A/2)$ $\angle A = 64^{\circ}$

75.**4**

```
\begin{aligned} x^{4} + x^{-4} &= 194 \\ x^{4} + x^{-4} + 2 &= 194 + 2 \\ (x^{2} + x^{-2})^{2} &= 196 \\ x^{2} + x^{-2} &= 14 \\ x^{2} + x^{-2} + 2 &= 14 + 2 \\ (x + x^{-1})^{2} &= 16 \\ x + x^{-1} &= 4 \\ x^{2} + 1 &= 4x \\ \Rightarrow x^{2} - 4x + 1 &= 0 \\ \Rightarrow x^{2} - 4x + 4 &= 3 \\ The value of (x-2)^{2} &= 3 \end{aligned}
```

The sentence talks about Seoul's city government initiative to correct poorly translated street signs. As here, are referring to more than one person (people), a plural pronoun would be placed here; 'this' and 'that' are thus eliminated. Between 'those' and 'these', 'those' will be the correct answer as those is used to refer a certain group of the two groups (here, in the sentence, the first group refers to the people who would take part in the initiative, while the other group for which 'those' is used is the group of people who spot most errors); 'these' is used to refer to people or things closer in time or proximity. The correct answer is option 2.

77.**4**

The blank is followed by an adjective which modifies the noun 'campaign'; so, an article must be placed in blank 2; this eliminates option 1. Also, the sentence talks about a campaign that is being run; this campaign may or may not be run regularly or may or may not be just associated with Seoul; hence, it cannot take the definite article 'the'; also, 'two' does not contain a vowel sound; hence, the usage of indefinite article 'an' will be incorrect too. The article 'a' fits appropriately in the blank; thus, the correct answer is thus option 4.

78. **3**

The sentence keeps forth the appeal made by the government to Koreans and foreigners for the errors in the street signs; 'alike' which is used to show that something applies equally to a number of specified subjects (Koreans and foreigners); here, the appeal applies equally to both Koreans and foreigners. 'Similarly', on the other hand, is used to point out the commonality between two or more subjects; this does not hold true here; hence, is eliminated. 'Same' is an adjective, but here we need an adverb to qualify the phrasal verb 'call on'; this is eliminated too. 'Likely' depicts possibility and as we here do not talk about any sort of possibility, this too is eliminated. Hence, the answer is option 3.

79.**4**

The passage talks about finding 'errors'; also, the passage talks about 'multiple possible errors', so the usage of 'blunder' and 'oversights' would be incorrect; 'guffaw' refers to a loud and hearty laugh which is certainly out of context; hence, the answer should be option 4 - 'mistakes'.

80. **1**

The blank 5 is followed by the noun 'focus'; this 'focus' is on 'public transport signs, maps and information signs at historic sites'. We need an adjective to qualify this noun; 'signifying' which is the progressive form of the verb 'signify', would be eliminated. As we talk about 'focus', using words like 'important' and 'meticulous' (careful) would make the sentence redundant. 'Particular', which is used to show specificity is the correct word to be used in the blank. Hence, the answer is option 1.

81. **2**

Coerce - persuade (an unwilling person) to do something by using force or threats; 'pressurize' is the correct synonym for 'coerce'. Enchant – fill someone with great delight or charm; cajole - persuade (someone) to do something by sustained coaxing or flattery. The answer is option 2.

82. **1**

The error is in part 1. The part 'in case that' is a conditional statement and as the event has already occurred, there is no point using a conditional statement here. Here, we can use a connector to depict a cause and effect relationship like 'as' or 'because'. The answer is option 1.

83. **3**

The sentence talks about a company that is possibly thought to produce the best cricket balls in the country. This context best takes the word 'reputation' (good name) as here we are talking about a specific characteristic which belongs to the company stated in the sentence. 'Opinion', 'brand' and 'position' do not relate to the given context; hence, are eliminated. The answer is option 3.

84.**4**

Expansion / augmentation / extension – the action of becoming larger or more extensive; compression – to become less in quantity or quality; clearly, only `compression' holds opposite meanings and so, the answer is option 4. Inflation – amplification.

Scarce – insufficient for the demand; the antonym clearly is 'plentiful' (abundant). 'Few' and 'scanty' are synonyms. 'Seldom' is an adverb that means 'rarely'. The answer is option 4.

86. **1**

Among the given words, 'calander' is spelt incorrectly; the correct spelling is 'calendar' (a chart or series of pages showing the days, weeks, and months of a particular year, or giving particular seasonal information) / 'calender' (a machine in which cloth or paper is pressed by rollers to glaze or smooth it). The answer is option 1.

87. **2**

The blank is preceded by an adjective, thus requires a noun. Both 'clothing' and 'apparel' are mass nouns and do not have a plural form, so their usage in plural form is incorrect; this eliminates options 1 and 3. 'Dressing' (stuffing / bandage) as a noun does not fit in the given context. Only 'costumes' fits in the sentence both contextually and grammatically, making option 2 the correct answer.

88. **2**

'Dwarf' holds the meaning given above; hence, option 2 is the answer. Wizard / witch – man / woman who has magical powers.

89. **1**

The phrase 'for a long time' indicates that the action began in past and still continues in the present; we need a present perfect continuous tense to bring out the correct meaning. The underlined phrase is in simple present tense; hence, is incorrect and we can say that the sentence needs improvement. Only option 1 is in present perfect continuous tense as it holds the structure 'have + been + verb+ing'. The answer is option 1. Option 2 is simple past while option 4 is present perfect.

90. **1**

The sentence is a conditional statement (usage of 'if' indicates this). As here we state a condition, the consequence is something that one will experience in future; so, the usage of the modal 'will' is necessary here; only option 1 satisfies the criteria and hence, is the answer.

91. **2**

'CB' forms a pair in the same order; 'them' in B refers to the '35 snakes' mentioned in B. 'DC' is too pair in the same order; D states of a café which is not for people who are not brave; C contains the reason for this. So, we see that 'DCB' is a block and only option 2 contains the block; the answer is option 2.

92. **3**

Statement D states a statement given by Director of D' Bone Collector Museum Inc; statement C uses the pronoun 'he' to refer to the person mentioned in D and states another dialogue by him. This suggests, C should follow D immediately as the two statements were said by the same person and are referring to the same issue; only option 3 contains the pair in same order; hence, option 3 is the answer.

93. **1**

Play ducks and drakes – to behave recklessly; to idly squander one's wealth. Only option 1 contains the correct meaning; hence, it is the answer.

94. **3**

'Although' is used to present an element of contrast; here it is not the case; so, the usage of 'although' is incorrect in the given sentence. 'As' would be the appropriate conjunction here; it is used to indicate that something happens during the time when something else is taking place (here, it refers to the dying of people when the cyclone hit Southern Africa). The answer is option 3.

The sentence is in the past continuous tense and it is in the passive form. The rule for changing the voice of a past continuous tense is as follows:

Passive voice: Object + was/were + being + past participle + by + subject = (every passing vehicle + was + being + thoroughly checked + by + the guards). Active voice: Subject + was/were + present continuous + object = (the guards + were + thoroughly checking + every passing vehicle). Option 1 is the correct answer.

96. **1**

Option 1 contains the incorrectly spelt word. The correct spelling is 'exploit' (use to good advantage).

97. **2**

'Chronic' – constantly recurring or long standing; 'persistent' means continuing or existing for a long period; the two hold similar meanings; hence are synonyms. The answer is option 2.

98.**4**

At daggers dawn – in bitter enmity. Option 4 suggests a similar meaning and hence is the answer.

99. **1**

Truant - a pupil who stays away from school without leave or explanation; vagrant - a person without a settled home or regular work who wanders from place to place and lives by begging; itinerant - a person who travels from place to place; migrant - a person who moves from one place to another, especially in order to find work or better living conditions. The answer is option 1.

100. **1**

The sentence is a suggestion. It is suggesting that we should not buy medicine without the doctor's prescription. 'Need' is a semi-modal verb and we use need mostly in the negative form to indicate that there is no obligation or necessity to do something. The sentence is not talking about obligations. Similarly, 'might' and 'could' do not show the intended meaning of the sentence and are the wrong modal verbs for this context. Option 1 is the correct answer.