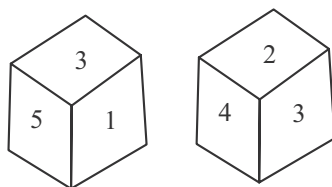


GENERAL INTELLIGENCE AND
REASONING

1. 10 years ago, the age of a father was $\frac{7}{2}$ times of the age of his son and after 10 years from now, the age of the father will be $\frac{9}{4}$ times of the age of his son. Now, how much is the total sum of the age of father and son?
- (a) 120 years (b) 115 years
(c) 110 years (d) 100 years

2. Two different situations of the same dice are shown. If the number 6 is on the lower board, then what will be the number on the upper board?



- (a) 4 (b) 1
(c) 2 (d) 3
3. Select the set in which the numbers are related in the same way as the numbers are related in the set below.
- (10, 18, 38)
(a) (4, 12, 22) (b) (14, 12, 8)
(c) (12, 22, 46) (d) (18, 6, 14)
4. Three from the following four numbers are somehow identical and one number is uneven. Select that uneven number.
- (a) 12 (b) 14
(c) 30 (d) 56
5. The way, in which the verb 'deed' is related to 'reaction', _____ is related to 'inciting'.
- (a) Foresight (b) Feedback
(c) Response (d) Welcome
6. Select the option that is related to the third letter group in the same way as the second letter group is related to the first letter group.
- BECD : YVXW :: DGEF : ?
- (a) WUTV (b) WTVU
(c) VRTS (d) XUWV

7. From the given options, select the word pair whose two words are related to each other in the same way as the words of the word pair below are related.

Heat: Sun

- (a) House: Terrace
(b) Vitamin: Fruit
(c) Environment: Humidity
(d) Ride: car
8. If BACK is coded as 11312 and CAKE as 51113. So how will MADE be coded?
- (a) 13145 (b) 54113
(c) 51413 (d) 31145
9. To correct the equation given below, which two symbols, should be mutated?
- $$18 + 6 - 6 \div 3 \times 3 = 6$$
- (a) + and \div (b) + and \times
(c) - and \div (d) + and -

10. Three words out of the following four words are somehow similar and one word is uneven. Choose the odd word.
- (a) Tendency (b) Endurance
(c) Stability (d) Persistence

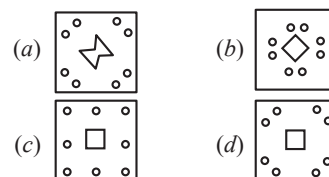
11. Select the next figure in the following figure sequence.



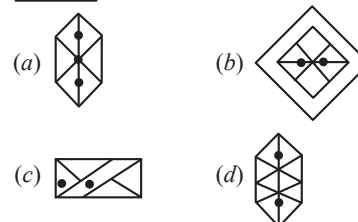
- (a) (b)
(c) (d)

12. In the series given below, what number will replace the question mark (?)?
- 2, 5, 11, 23, 44, ?
- (a) 77 (b) 63
(c) 51 (d) 66

13. A paper is folded and cut as shown below. What will it look like when open it?



14. Select the option in which the given figure is hidden.



15. Arrange the following words in a logical and meaningful sequence.

1. Medicine
2. Disease identification
3. Consultation
4. Disease
5. Health Benefits
6. Doctor
- (a) 4, 6, 3, 2, 1, 5 (b) 2, 6, 4, 1, 3, 5
(c) 4, 6, 2, 3, 1, 5 (d) 4, 6, 1, 3, 2, 5

16. Select the letter combination that is placed sequentially on the blank spaces of the letter series given below to complete the given series.

ac_d_b_cbdd_a_bddb

- (a) bdbca (b) bdcab
(c) cbdbc (d) bdabc

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

- (a) TWUV (b) HNLJ
(c) MSOQ (d) DGEF

18. Two statements are given below and then conclusions I, II and III are given. Assuming the statement to be true, even if it seems to be at variance from commonly known facts, you have to decide which of the given conclusions logically follows the given statements.

Statement:

Some cars are vehicles.

No vehicle is four wheeler.

Conclusion:

I. There are no cars that are four wheeler.

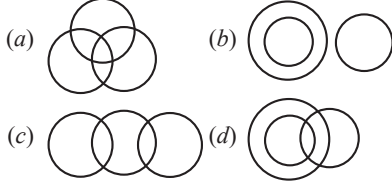
II. All four wheelers are cars.

III. Some vehicles are cars.

- (a) Only conclusion I follows.
 (b) Both conclusions I and II follow.
 (c) Only conclusion II follows.
 (d) Only conclusion III follows.

19. Identify the diagram that best represents the relationship among the given classes.

Parents, rich people, farmers



20. P is father of Q and grandfather of R. R is brother of S. T is the mother of S and is married to V. T is sister of Q. How is V related to P?

- (a) Son (b) Nephew
 (c) Brother-in-law (d) Son-in-law

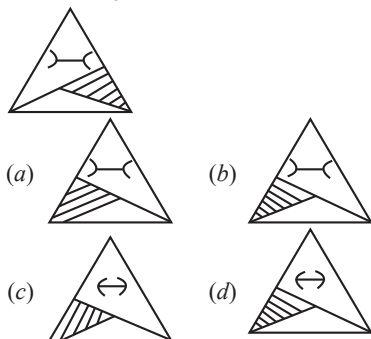
21. In a code language, TEMPLE is written as DKOLDS. In the same code language, how will be WORSHIP written as?

- (a) OHGRQNV (b) OGHQRVN
 (c) QJITSPX (d) VNQGHOR

22. Select the set in which the numbers are interlinked in the same way as the numbers are related in the set given below.

- (7, 13, 21)
 (a) (12, 18, 25) (b) (17, 22, 30)
 (c) (9, 16, 25) (d) (2, 8, 16)

23. If the mirror is placed on the right side of the diagram given below, then select the right mirror image to be made.



24. Select the number pair in which the two numbers are related in the same way as the two numbers are related in the number pair given below.

- 4 : 32
 (a) 10 : 160 (b) 8 : 248
 (c) 6 : 108 (d) 5 : 62

25. How many triangles are there in the given figure?



- (a) 18 (b) 16
 (c) 14 (d) 20

GENERAL AWARENESS

26. How many great powers (Mahajanapada) existed in the seventh and sixth centuries BCE during the life of Lord Gautama Buddha?

- (a) 11 (b) 13 (c) 17 (d) 16

27. Which of the following Articles of the Constitution of India is related to the Uniform Civil Code?

- (a) Article 44 (b) Article 46
 (c) Article 45 (d) Article 43

28. Name the first female Prime Minister of the world.

- (a) Indira Gandhi
 (b) Sirimavo Bandaranaike
 (c) Golda Meir
 (d) Elizabeth Domitien

29. Which panel set up by the Government of India has suggested the removal of complete control over Chinese industry?

- (a) Mr. Krishna Panel
 (b) Rangarajan Panel
 (c) Ramsevak Panel
 (d) Radheshyam Panel

30. Where was the inauguration of Special Olympics World Games 2019?

- (a) Abu Dhabi (b) Sweden
 (c) Germany (d) Austria

31. Which is the traditional musical instrument of Limbu community of Sikkim?

- (a) Chutke (b) Naumati
 (c) Chya Brung (d) Gyurum Sili

32. In March 2019, Social Media Platforms and Internet and Mobile Association of India (IAMI) introduced _____ to the Election Commission of India for the general elections 2019.

- (a) Voluntary Code of Conduct
 (b) Precautionary Code
 (c) List of jobs to be done
 (d) Polling List Center

33. Name the pass in Uttarakhand which is used by pilgrims to Kailash-Mansarovar Yatra.

- (a) Pensy La (b) Kurdung
 (c) Banihal Pass (d) Lipu Lekh

34. Buckminster Fullerenes is an allotrope of which of the following?

- (a) Phosphorus (b) Iron
 (c) Carbon (d) Boron

35. Which of the following is aldehyde?

- (a) Propine (b) Propanone
 (c) Propenal (d) Propanol

36. Name the gland that controls the function of other endocrine glands.

- (a) Pancreas (b) Adrenal gland
 (c) Renal gland (d) Pituitary gland

37. Which of the following is NOT one of the monarchical states that existed in India in the seventh and early sixth centuries BC?

- (a) Magadha (b) Vaishali
 (c) Avanti (d) Kosala

38. Who was the first ever female secretary general of SAARC (South Asian Association for Regional Cooperation)?

- (a) Antino Guteres
 (b) Jeremiah Nymann Kingsley
 (c) Madeleine Albright
 (d) Fatimath Dhiyana Saeed

39. Which of the following was the Precursor of the Internet?

- (a) APNET (b) ANET
 (c) ARPANET (d) PANET

40. Which team won the Ranji Trophy final 2017?

- (a) Vidarbha (b) Punjab
 (c) Mumbai (d) Delhi

41. Which of the following biosphere reserves was first established by the Government of India?

- (a) Sunderbans Biosphere Reserve
 (b) Gulf of Mannar Biosphere Reserve
 (c) Nanda Devi Biosphere Reserve
 (d) Nilgiri Biosphere Reserve

42. Name the state Chandragupta-I got in dowry from the Lichhavis.

- (a) Pataliputra (b) Prayaga
 (c) Saketa (d) Ujjain

43. Who was the founder of the Chalukya dynasty?

- (a) Pulakesin I
 (b) Kirtivarman I
 (c) Narasimhavarman
 (d) Mahendravarman

44. Which of the following public sector undertaking was given Maharatna status in February 2013?

- (a) ONGC (b) BHEL
 (c) CIL (d) OIL

45. In which year Project Tiger was launched in India?

- (a) 1982 (b) 1992
 (c) 1979 (d) 1973

46. _____ is a group folk dance of Sikkim performed in honour of Mount Khangchendzonga, the guardian deity of the Sikkimese people.

- (a) Zo-Mal-Lok
 (b) Tendong Lo Rum Faat
 (c) Chu-Faat
 (d) Kinchum-Chu-Bomsa

47. Which of the following has a very strong aroma of the fruit?
 (a) Methanol (b) Ethyl Acetate
 (c) Methyl chloride (d) Methanoic acid
48. "What is the name of the first Indian budget carrier to join the International Air Transport Association (IATA)?
 (a) Indigo (b) SpiceJet
 (c) Go Air (d) Jet Airways
49. The idea of residual powers in the Indian Constitution is derived from the _____ Constitution.
 (a) South Africa (b) America
 (c) Canada (d) Japan
50. "Which of the following states passed the Maintenance of Household Registers Bill in March 2019?
 (a) Odisha (b) Assam
 (c) Mizoram (d) West Bengal

QUANTITATIVE APTITUDE

51. $\left(\frac{\sin \theta - 2 \sin^2 \theta}{2 \cos^3 \theta - \cos \theta} \right)^3 + 1$, $\theta \neq 45^\circ$ is equal to:
 (a) $\sec^2 \theta$ (b) $2 \tan^2 \theta$
 (c) $\operatorname{cosec}^2 \theta$ (d) $\cot^2 \theta$
52. Raju's income is 20% more than his expenditure. If his income increases by 60% and his expenditure increase by 70%, then what percentage of the savings will increase / decrease?
 (a) will decrease 2%
 (b) will decrease 10%
 (c) will increase 10%
 (d) will increase 2%
53. The ratio of competencies A, B and C is 4: 5: 3. On working together, all three of them complete work in 25 days. In how many days will both A and C together complete 35% of the work?
 (a) 18 days (b) 15 days
 (c) 12 days (d) 10 days
54. Renu bought an item for Rs.1,240 and sold it at a loss of 25%. With that amount, she bought another item and sold it for 40% profit. What percentage of profit did Renu get?
 (a) 12% (b) 5% (c) $6\frac{2}{3}\%$ (d) 15%

Directions (55-56): The table shows the production (in thousands) of different types of cars.

Years/ Cars	2013	2014	2015	2016	2017
A	35	40	48	50	36
B	39	45	54	60	72
C	52	25	32	54	45
D	50	42	45	46	47
E	36	46	48	48	55

55. The total production of A type cars in year 2015 and C type cars in 2013 is approximately what percent of the total production of D type cars in five years?
 (a) 42.4 (b) 42.8
 (c) 43.5 (d) 40.2
56. What is the ratio of total production of C and E type cars in the year 2013 to D in 2014 and 2016 and total production of E type cars in 2017?
 (a) 8 : 13 (b) 8 : 11
 (c) 13 : 32 (d) 5 : 8
57. Circles of radius 10 cm and 8 cm cut each other at points P and Q. PQ = 12 cm and the distance between the centers of the circle is x cm, then the value of x (correct to 1 decimal place):
 (a) 14.8 (b) 12.8 (c) 13.9 (d) 13.3
58. The nominal value of an article is Rs. 315. It is sold for Rs. 288. If this leads to a loss of 4%, then what percentage of the item was marked more than the cost?
 (a) $6\frac{1}{2}\%$ (b) 5%
 (c) $5\frac{1}{2}\%$ (d) 8%
59. A takes 30 minutes longer than B to cover a distance of 15 km at a certain speed. However, if A doubles his speed, he covers the same distance in an hour less time than B. What is the speed of B (in km / h)?
 (a) 5 (b) 6 (c) $6\frac{1}{2}$ (d) $5\frac{1}{2}$
60. The average weight of some students in a class is 68.5 kg. If four new students of 72.2 kg, 70.8 kg, 70.3 kg, 66.7 kg are enrolled in the class, the average weight of students increases to 300 g. Initially, how many students were there in the class?
 (a) 11 (b) 26 (c) 21 (d) 16
61. If $16x^2 + 9y^2 + 4z^2 = 24(x - y + z) - 61$, then the value of $(xy + 2z)$ will be:
 (a) 1 (b) 2 (c) 5 (d) 3
62. If x is subtracted from each of 23, 39, 32 and 56, then the numbers obtained in this sequence are in proportion. What will be the mean proportional between $(x + 4)$ and $(3x + 1)$?
 (a) 10 (b) 15 (c) 14 (d) 12
63. If $[8(x + y)^3 - 27(x - y)^3] \div (5y - x) = Ax^2 + Bxy + Cy^2$, then, value of $(A + B + C)$ will be:
 (a) 26 (b) 19 (c) 13 (d) 16
64. A circle with center 'O' is drawn inside a triangle ABC. On increasing AO, it meets the circle on K and AD \perp BC. If $\angle B = 80^\circ$ and $\angle C = 64^\circ$, then the measure of $\angle DAK$ is:
 (a) 10° (b) 12° (c) 20° (d) 8°

65. In $\triangle ABC$, AD \perp BC and BE \perp AC. AD and BE cut each other at F. If BF = AC, what will be the measure of $\angle ABC$?
 (a) 60° (b) 45° (c) 50° (d) 70°
66. $\triangle ABC$ is similar to $\triangle DEF$. The area of $\triangle ABC$ is 100 cm^2 and the area of $\triangle DEF$ is 49 cm^2 . If $\triangle ABC$'s altitude is 5 cm, then $\triangle DEF$ will have corresponding altitude:
 (a) 4.5 cm (b) 6 cm
 (c) 7 cm (d) 3.5 cm
67. The table shows the production (in thousands) of different types of cars.

Years/ Cars	2013	2014	2015	2016	2017
A	35	40	48	50	36
B	39	45	54	60	72
C	52	25	32	54	45
D	50	42	45	46	47
E	36	46	48	48	55

In the year 2013, 2014, 2015 and 2017, the total production of B type cars is how much percent less than the total production of all types of cars in the year 2017? (Correct to 1 decimal place)

- (a) 15.8 (b) 17.6 (c) 18.2 (d) 18.4
68. The table shows the production (in thousands) of different types of cars.

Years/ Cars	2013	2014	2015	2016	2017
A	35	40	48	50	36
B	39	45	54	60	72
C	52	25	32	54	45
D	50	42	45	46	47
E	36	46	48	48	55

If the figures related to the production of B type cars are represented by a circle diagram (pie chart), then the central angle of the sector showing the production of cars in 2016 will be:

- (a) 72° (b) 60° (c) 96° (d) 80°

69. If $0^\circ < \theta < 90^\circ$ and $\cos^2 \theta = 3(\cot^2 \theta - \cos^2 \theta)$, then the value of $\left(\frac{1}{2} \sec \theta + \sin \theta \right)^{-1}$ will be:

- (a) $2(\sqrt{3} - 1)$ (b) $\sqrt{3} + 1$
 (c) $\sqrt{3} + 2$ (d) $2(2 - \sqrt{3})$

70. If, $\cos \theta = \frac{2p}{1 + p^2}$ then $\tan \theta$ is equal to:

- (a) $\frac{p^2}{1 + p^2}$ (b) $\frac{1 - p^2}{1 + p^2}$
 (c) $\frac{2p}{1 - p^2}$ (d) $\frac{1 - p^2}{2p}$

71. The value of $[5 \div 5 \text{ of } 5 \times 2 + 2 \div 2 \text{ of } 2 \times 5 - (5 - 2) \div 6 \times 2]$ is:

- (a) $\frac{9}{5}$ (b) 19 (c) $\frac{23}{2}$ (d) $\frac{19}{10}$

72. If the number of eight digits is 789x531y, the number is divisible by 72, then the value of $(5x - 3y)$ will be:
(a) 0 (b) -1 (c) 1 (d) 2
73. At a compounded interest rate of 10% per annum, the interest is Rs.1,623 in $2\frac{1}{2}$ years, when interest is annually combined. What is the amount?
(a) Rs.5,000 (b) Rs.6,000
(c) Rs.7,200 (d) Rs.6,500
74. If $x + y + z = 19$, $xy + yz + zx = 114$, then the value of $\sqrt{x^3 + y^3 + z^3 - 3xyz}$ will be:
(a) 17 (b) 13 (c) 19 (d) 21
75. A cuboidal tank measuring $10\text{ m} \times 8\text{ m} \times 6\text{ m}$ with a circular hole of one-meter diameter on top, how much of iron sheets (m²) will be needed to make such a tank? (Correct to 1 decimal place)
(a) 370.4 (b) 371.6
(c) 375.2 (d) 370.8

ENGLISH COMPREHENSION

76. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.
Do not park your car in front of my house.
(a) My house should not be parked in front of your car.
(b) Your car need not be parked in front of my house.
(c) Your car should not be parked in front of my house.
(d) Your car could not be parked in front of my house.
77. Select the word which means the same as the given definition.
A person, plant or animal belonging originally to a place.
(a) occupant (b) alien
(c) native (d) resident
78. Select the most appropriate antonym of the given word.
ESCALATE
(a) raise (b) enlarge
(c) reduce (d) heighten
79. Select the most appropriate antonym of the given word.
TENDER
(a) rough (b) warm
(c) gentle (d) soft
80. Select the most appropriate word to fill in the blank.
The State Government argued that it could not _____ the increase in the teachers' salaries as awarded by the court.
(a) spare (b) get
(c) stand (d) afford

81. Given below are four jumbled sentences. Select the option that gives their correct order.
(a) That sort of pollution, which is also widespread in other Southeast Asian nations, regularly kills wildlife like whales and turtles that ingest the waste.
(b) Environmental groups have tagged the Philippines as one of the world's biggest ocean polluters due to its reliance on single-use plastic.
(c) In Thailand also, a whale died last year after swallowing more than 80 plastic bags.
(d) In the latest case, a whale with 40 kilos of plastic trash in its stomach died on Saturday in the Southern Philippines, where it was stranded a day earlier.
(a) ABCD (b) BADC
(c) DABC (d) BCAD
82. Select the most appropriate word to fill in the blank.
Scientists at Cambridge University are _____ how plants can give us sustainable energy.
(a) scrutinized (b) investigating
(c) inspecting (d) looking
83. Select the word which is spelt incorrectly.
(a) comparison (b) communication
(c) competition (d) comparable
84. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No improvement'.
I look for a better job for the last two months, but nothing is in sight.
(a) have looked for a better job
(b) looked for a better job
(c) have been looking for a better job
(d) No improvement
85. Choose the most appropriate option to change the voice (active/passive) form of the given sentence.
The main gate of the building was being guarded by gun-toting guards.
(a) The main gate of the building were guarding gun-totting guards.
(b) Gun-totting guards were guarding the main gate of the building.
(c) Gun-totting guards have been guarding the main gate of the building.
(d) Gun-totting guards guarded the main gate of the building.
86. In the sentence, identify the segment which contains the grammatical error.
Due to Cyclone Idai, vast areas of land have been flooded, roads destroyed, and communications disrupting in Zimbabwe and Mozambique.
(a) vast areas of land have been flooded
(b) roads destroyed
(c) Due to the Cyclone Idai
(d) and communications disrupting
87. Select the most appropriate meaning of the given idiom. Costs an arm and a leg
(a) rarely available (b) easy to obtain
(c) nothing to lose (d) very expensive

Directions (88-92): Read the following passage and fill in each blank with words chosen from the options given.

An Italian mayor has been cleaning the streets along with his councillors after their town _____ (1) with no manual workers, it's reported. In fact, _____ (2) was sweeping the piazza in front of the _____ (3) church in preparation for market day, _____ (4) the deputy mayor's father and a town councillor armed with a high-pressure hose. The town Zerfaliu's last _____ (5) retired six months ago, and nobody has been hired since then. "We can't do anything - we are blocked by bureaucracy," the mayor says.

88. Select the most appropriate option to fill in blank No.1
(a) leaves (b) was left
(c) was leaving (d) has left
89. Select the most appropriate option to fill in blank no.2
(a) they (b) it (c) she (d) he
90. Select the most appropriate option to fill in blank no.3
(a) next (b) near
(c) neighbour (d) local
91. Select the most appropriate option to fill in blank no.4
(a) as well (b) alongside
(c) also (d) along
92. Select the most appropriate option to fill in blank no.5
(a) mayor (b) councillor
(c) worker (d) member
93. Given below are four jumbled sentences. Select the option that gives their correct order.
(A) The elephant tusks were tracked from the Democratic Republic of Congo for two months.
(B) Customs officials in Thailand say it's the biggest seizure in the country's history.
(C) Four tonnes of ivory, with a market value of \$6 million - it was an impressive haul.
(D) Officials say they were being transported to Laos, from where they believed the ivory would be sold to customers across Asia.
(a) CBAD (b) ABCD
(c) ACDB (d) CABD
94. Select the word incorrectly spelt.
(a) exemplify (b) example
(c) exhale (d) exempt
95. Select the most appropriate synonym of the given word.
GARRULOUS
(a) talkative (b) concise
(c) throaty (d) guttural
96. Identify the best way to improve the underlined part of the given sentence. If

there is no improvement required, select 'No improvement'.

If you join this job now, it proves to be good in the long run.

- (a) No improvement
- (b) it has proved to be good
- (c) it proves good
- (d) it will prove to be good

97. Identify the segment which contains the grammatical error in the sentence.

She got two quick promotions in order that she has good communication skills.

- (a) two quick promotions
- (b) in order that
- (c) she has good communication skills
- (d) She got

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

Get out of hand

- (a) get upsets
- (b) give up something
- (c) get out of control
- (d) to complete a task

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

TILT

- (a) Support
- (b) Cross
- (c) Straighten
- (d) Slant

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

A person without a settled home or regular work who wanders from place to place and lives by begging.

- (a) vagrant
- (b) truant
- (c) itinerant
- (d) migrant

EXPLANATIONS

1. (c) Let the present age of father is x and son is y .

According to the question,

10 years ago,

$$x - 10 = \frac{7}{2}(y - 10)$$

$$\Rightarrow 2x - 20 = 7y - 70$$

$$\Rightarrow 7y - 2x = 50 \quad \dots (i)$$

10 years from now,

$$x + 10 = \frac{9}{4}(y + 10)$$

$$\Rightarrow 4x + 40 = 9y + 90$$

$$\Rightarrow 4x - 9y = 50 \quad \dots (ii)$$

On solving both the equations-

We get, $y = 30$ and $x = 80$

Sum of their present ages = $80 + 30 = 110$ years

2. (d) Moving in the clockwise direction,

Cube 1- 3, 1, 5

Cube 2- 3, 4, 2

Clearly, 6 will be opposite to 3.

3. (c) According to question,

$$10 \times 2 - 2 = (20 - 2) = 18$$

$$18 \times 2 + 2 = (36 + 2) = 38$$

Similarly, the option(c) is related to above number set in this manner.

$$12 \times 2 - 2 = (24 - 2) = 22$$

$$22 \times 2 + 2 = (44 + 2) = 46$$

4. (b) According to question,

$$3 \times 4 = 12$$

$$2 \times 7 = 14$$

$$5 \times 6 = 30$$

$$7 \times 8 = 56$$

All except 14 are the multiples of consecutive numbers.

5. (c) Deed - reaction

Response - inciting

6. (b) According to question,

The first and second set of letters are the pairs of the opposite letter.

BECD : YVXW

Similarly,

DGEF : WTVU

7. (b) As, sun is the source of heat.

Likewise, fruit is the source of vitamin.

8. (b) The reverse order of BACK is KCAB (11 3 1 2).

Similarly, the reverse order of MADE is EDAM and it will be coded as 54113

9. (a) If we interchange the $+$ and \div sign the above equation become correct.

$$18 \div 6 - 6 + 3 \times 3 \text{ (applying BODMAS)}$$

$$= 3 - 6 + 9 = 12 - 6 = 6$$

10. (a) Tendency relates to the ability of a person to do something.

While endurance, stability and persistence means the state of being stable.

Hence, option (a) is the correct answer.

11. (b) The figure first moves in anti-clockwise direction and then its mirror image shown in the next figure with the outward arrows. In next figure the pattern is same but arrow sign changes to inward.

Therefore, according to the above pattern-



Hence, option (b) is the correct answer.

12. (a) The Pattern is:

$$2 \quad 5 \quad 11 \quad 23 \quad 44 \quad 77$$

$$\swarrow \quad \searrow \quad \swarrow \quad \searrow \quad \swarrow \quad \searrow$$

$$3 \quad 6 \quad 12 \quad 21 \quad 33$$

$$\swarrow \quad \searrow \quad \swarrow \quad \searrow \quad \swarrow \quad \searrow$$

$$3 \quad 6 \quad 9 \quad 12$$

Hence, option (a) is the correct answer.

13. (d) The paper will open in 2 steps:-

Step-1



Step-2



Hence, option (d) is the correct answer.

14. (d) After observing the options, we can see that the figure given under option (d) is indeed embedded in the original figure. It has been represented below,



Hence, option (d) is the correct answer.

15. (a) We know that disease occurs first and then we go to the doctor.

Thus the correct order is -

- 4. Disease
- 6. Doctor
- 3. Consultation
- 2. Disease identification
- 1. Medicine
- 5. Health benefits

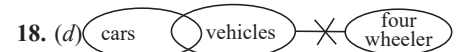
Hence, option (a) is the correct answer.

16. (d) The sequence of series is:

acbddb, / acbddb, / acbddb

Hence, option (d) is the correct answer.

17. (b) Except in letter group HNLJ, in all others there has one vowel.



Conclusion:

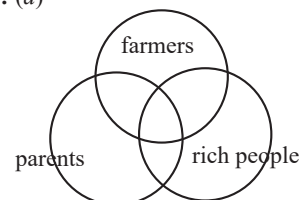
I. (false) as there is no relation between them.

II. (false) it is a possibility case.

III. (true) it is clearly shown in the diagram.

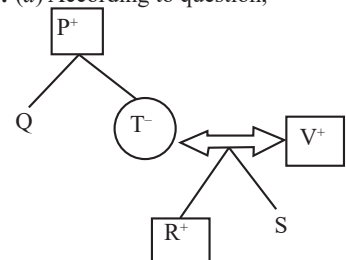
Hence, option (d) is the correct answer.

19. (a)



Hence, option (a) is the correct answer.

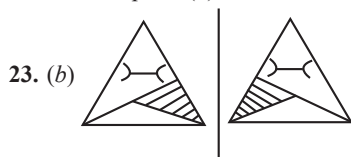
20. (d) According to question,



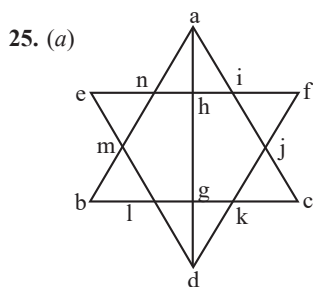
From the diagram, it is clear that V is son-in-law of P.

21. (a) As, ELPMET \rightarrow DKOLDS
Similarly,
PIHSROW \rightarrow OHGRQNV
Hence, option (a) is the correct answer.

22. (d) As,
 $7 \xrightarrow{+6} 13 \xrightarrow{+8} 21$
Similarly,
 $2 \xrightarrow{+6} 8 \xrightarrow{+8} 16$
Hence, option (d) is the correct answer.



24. (c) As,
 $4^2 \times \frac{4}{2} = 32$
Similarly,
 $6^2 \times \frac{6}{2} = 108$



In the above figure, the triangles formed are as follows- abc, def, mne, bml, kdl, ckj, fji, ani, ahi, anh, dkg, gdl, dhe, dhf, abg, agc, amd, ajd.

Total number of triangles are 18.

Hence, option (a) is the correct answer.

26. (d) There were total 16 Mahajanpadas were existing throughout the country during the time of 6-7th century B.C. These were Kasi, Kosala, Anga, Magadha, Vajji, Malla, Chedi, Vatsa, Kuru, Panchala, Machcha, Surasena, Assaka, Avanti, Gandhara and Kamboja. These kingdoms were known as "Mahajanapadas" in Buddhist traditions.
27. (a) The term, 'Uniform Civil Code' is explicitly mentioned in Part 4, Article 44 of the Indian Constitution. Article 44 says, "The State shall endeavor to secure for the citizens a uniform civil code throughout the territory of India."
28. (b) Among the given options, Sirimavo Bandaranaike was the first female Prime Minister of the world. She was the Sri Lankan stateswoman. She was elected as the PM of Sri Lanka in 1960 and was elected for three times.
29. (b) The Government of India set up the Rangarajan Panel, which recommended removing all controls from the sugar

industry. The Sri Krishna Panel is responsible for reporting on data protection issues. C. Rangarajan served as the Chairman of the Economic Advisory Council to the Prime Minister and was also the Governor of the Reserve Bank of India.

30. (a) The inauguration of Special Olympics World Games 2019 was held in Abu Dhabi, United Arab Emirates from March 14–21, 2019. At the Special Olympics World Summer Games, the 284-athlete Indian team won 129 bronze medals, 154 silver medals, and 85 gold medals.
31. (c) Among the given options, Chyabrung is the traditional musical instrument of Limbu community of Sikkim. Limbu community has many folk musical instruments and used in their own life cycle rituals, occasions, like -"Ke" or "Chyabrung", "Negra", "Penjekom", "Murchunga", "Chethya", "Miklakom", "Binayo" etc.
32. (a) In March 2019, Social Media Platforms and Internet and Mobile Association of India introduced Voluntary Code of Conduct to the Election Commission of India for the general elections in 2019. During the election period, social media platforms took action on 909 violative cases, reported by the ECI.
33. (d) Among the given options, Lipulekh pass is used by pilgrimage of Kailash Mansarovar. It is also known as Lipu-Lekh Pass/Qiangla or Tri-Corner, is a high altitude mountain pass situated in the western Himalayas with a height of 5,334 metre or 17,500 feet. It is an International mountain pass between India, China and Nepal.
34. (c) Bulkminister Fullerene is an allotrope of carbon and it comprises of C-50, C-60 carbon atoms. It contains pentagonal and hexagonal carbon cycles arranged in a football shaped. It is a radical scavenger and also has vital applications in nano technology.
35. (c) Among the given options, Propenal is an aldehyde. Aldehyde groups' names typically finish with "al." Aldehydes are considered the most important functional group. They are often called the formyl or methanoyl group. Aldehydes derive their name from the dehydration of alcohols. Aldehydes contain the carbonyl group bonded to at least one hydrogen atom.
36. (d) Pituitary gland controls the function of other endocrine glands. It is also known as Master gland. Its size is about of a pea and is situated in a bony hollow, just behind the bridge of your nose. It is attached to the base of your brain by a thin stalk.
37. (b) Among the given options, Vaishali was not among the Janpadas present during 7th century BC. There were total 16 Janpads during seventh and early sixth centuries BC.

38. (d) Among the given options, Fathimath Dhiyana Saeed, was First female secretary general of SAARC. She was also the former Maldivian Attorney-General. SAARC is a regional Asian group founded in 1985 which has 8 members having its headquarters at located at Kathmandu, Nepal.
39. (c) ARPANET was the Precursor of the Internet. It was the network that became the basis for the Internet which is based on a concept first published in 1967. In 1969, the idea became a modest reality with the interconnection of four university computers.
40. (a) In 2017–18 Ranji Trophy was the 84th season the premier first-class cricket tournament that took place in India between October 2017 and January 2018. Vidarbha won the tournament, beating Delhi by 9 wickets in the final, to win their first Ranji Trophy title.
41. (d) The given biosphere Reserves are formed in the following years- Nilgiri Biosphere Reserve – 1986 located at Tamil Nadu. Sunderbans – 1989 located at West Bengal Nanda Devi National Park & Biosphere Reserve- 1988 located at Uttarakhand. Gulf of Mannar – 1989 located at Tamil Nadu.
42. (a) Chandragupta I received Pataliputra as part of his dowry from the Lichhavis. He married Kumaradevi, a princess from the Lichhavi family. Chandragupta I is recognized as the founder of the Gupta Empire, which began with his accession in A.D. 320.
43. (a) The Chalukya dynasty was founded by Pulakesin I. It was established in 543 AD. He established its capital at Badami (vatapi). Pulakesin I and his descendants are referred to as "Chalukyas of Badami".
44. (b) BHEL has granted Maharatna status in February 2013. One of the eligibility criteria to be given the coveted status is that the company should have an average annual turnover over Rs 25,000 crore during the last three years.
45. (d) 'Project Tiger' was launched in the year 1973 by the Government of India during the tenure of Smt. Indira Gandhi, the then prime minister. Project Tiger is a tiger conservation program by the Government of India under the Wildlife protection act 1972. As of December 2024, there are 57 protected areas that have been designated as tiger reserves.
46. (c) Chu faat is collective folk dance, which is done in in honour of Mount Khangchendzonga the Patron God of the people of Sikkim. This old folk dance of Lepchas also honours the four associate

peaks of Mount Khangchend-zonga: Mt. Pandim, Mt. Kabru, Mt. Simbrum and Mt. Nars-hing. These five peaks are believed to be the storehouse of five hidden treasures such as salt, medicine, minerals, sacred books and food grains.

47. (b) Ethyl acetate has a very strong aroma of the fruit. It is the organic compound with the formula $\text{CH}_3\text{COO-CH}_2\text{-CH}_3$, simplified to $\text{C}_4\text{H}_8\text{O}_2$. The characteristic is sweet smell and is used in glues, nail polish removers, decaffeinating tea and coffee.

48. (b) SpiceJet is the first Indian budget carrier to join the International Air Transport Association (IATA). It has joined global airlines' grouping IATA as a member, becoming the first Indian low-cost carrier to get the membership. The International Air Transport Association (IATA) represents more than 290 airlines, including Air India, Jet Airways and Vistara.

49. (c) The idea of residual powers in the Indian Constitution is derived from the constitution of Canada.

Some features adopted are-

1. Federation with a strong Centre
2. Vesting of residuary powers in the Centre
3. Appointment of state governors by the Centre
4. Advisory jurisdiction of the Supreme Court

50. (c) The Mizoram Maintenance of Household Register Bill, 2019, was approved by the Mizoram Assembly without a vote. In an effort to identify unlawful immigrants residing and "eating away" advantages from development plans, it seeks to construct registers with the names, contact information, and images of each household's residents.

51. (a) According to question,

$$\begin{aligned} & \left(\frac{\sin \theta - 2 \sin^3 \theta}{2 \cos^3 \theta - \cos \theta} \right)^2 + 1 \\ &= \frac{\sin^2 \theta (1 - 2 \sin^2 \theta)^2}{\cos^2 \theta (2 \cos^2 \theta - 1)^2} + 1 \\ &= \frac{\tan^2 \theta (\cos 2\theta)^2}{(\cos 2\theta)^2} + 1 \\ &= \tan^2 \theta + 1 = \sec^2 \theta \end{aligned}$$

52. (c) Let Raju's expenditure = Rs. 100

Then, his income = Rs. 120

Saving = Rs. 20

Now,

$$\text{New income} = 120 \times \frac{160}{100} = \text{Rs. } 192$$

New expenditure = Rs. 170

New saving = $192 - 170 = \text{Rs. } 22$

$$\% \text{ increase in saving} = \frac{22 - 20}{20} \times 100 = 10\%$$

53. (b) Ratio of efficiencies, $A : B : C = 4 : 5 : 3$
 $(A + B + C) : (A + C) = 12 : 7$

Now,

$$\frac{M_1 \times D_1}{W_1} = \frac{M_2 \times D_2}{W_2}$$

$$\frac{12 \times 25}{1} = \frac{7 \times D_2}{\frac{35}{100}}$$

$$D_2 = \frac{12 \times 25 \times \frac{35}{100}}{7} = 15$$

So, option (b) is correct answer.

54. (c) CP of another item

$$= 1240 \times \frac{75}{100} = \text{Rs. } 930$$

New selling price of item

$$= 930 \times \frac{140}{100} = \text{Rs. } 1302$$

$$\text{Profit \%} = \frac{1302 - 1240}{1240} \times 100 = \frac{620}{1240} = 5\%$$

So, option (b) is correct.

55. (c) According to question,

Total production of A type cars in year 2015 and C type cars in 2013 = $48 + 52 = 100$

Total production of D type cars in five years = $50 + 42 + 45 + 46 + 47 = 230$

Required percent

$$= \frac{100}{230} \times 100 = \frac{1000}{23} \approx 43.5\%$$

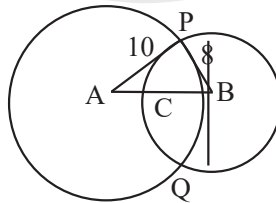
56. (a) Total production of C and E type cars in the year 2013 = $52 + 36 = 88$

Total production of D in 2014 and 2016 and E in 2017 = $42 + 46 + 55 = 143$

Required ratio = $88 : 143 = 8 : 13$

So, option (a) is correct.

57. (d) According to question,



$AB = x$ cm and $PQ = 12$ cm. AB always bisects PQ. Therefore $PC = CQ = 6$

$$AC = \sqrt{10^2 - 6^2} = \sqrt{100 - 36} = 8$$

$$BC = \sqrt{8^2 - 6^2} = \sqrt{64 - 36} = \sqrt{28} = 5.29$$

$$x = AB = AC + BC = 8 + 5.29 = 13.29 \approx 13.3 \text{ cm}$$

58. (b) According to question,

$$\text{Cost price of item} = 288 \times \frac{100}{96} = 300$$

Marked price = Rs. 315

$$\text{Required percent} = \frac{315 - 300}{300} \times 100 = 5\%$$

59. (b) Let A's speed = a km/h, B's speed = b km/h, then

$$15 \left(\frac{1}{a} - \frac{1}{b} \right) = \frac{30}{60}$$

$$\frac{1}{a} - \frac{1}{b} = \frac{1}{30} \quad \dots(i)$$

$$15 \left(\frac{1}{b} - \frac{1}{2a} \right) = 1$$

$$-\frac{1}{2a} + \frac{1}{b} = \frac{1}{15} \quad \dots(ii)$$

Adding (i) and (ii), we get

$$\frac{1}{2a} = \frac{3}{30} = \frac{1}{10}$$

$$a = 5$$

$$\frac{1}{b} = \frac{1}{a} - \frac{1}{30} = \frac{1}{5} - \frac{1}{30} = \frac{1}{6}$$

$$b = 6$$

So, speed of B is 6 km/hr

60. (d) Let x student were there in the class initially. Then sum of the weights of x students in class = $68.5x$
 According to question,

$$68.5x + 72.2 + 70.8 + 70.3 + 66.7 = (x + 4) \left(68.5 + \frac{300}{1000} \right)$$

$$68.5x + 280 = (x + 4) \times 68.8$$

$$68.5x + 280 = 68.8x + 275.2$$

$$0.3x = 4.8$$

$$x = 16$$

So, total number of students in the class = 16

61. (c) According to question,

$$16x^2 + 9y^2 + 4z^2 = 24(x - y + z) - 61$$

$$16x^2 - 24x + 9 + 9y^2 + 24y + 16 + 4z^2 - 24z + 36$$

$$= 9 + 16 + 36 - 61$$

$$(4x - 3)^2 + (3y + 4)^2 + (2z - 6)^2 = 0$$

$$\text{if } 4x - 3 = 0 \Rightarrow x = \frac{3}{4}$$

$$3y + 4 = 0 \Rightarrow y = -\frac{4}{3}$$

$$2z - 6 = 0 \Rightarrow z = 3$$

$$xy + 2z = \frac{3}{4} \times -\frac{4}{3} + 2 \times 3 = -1 + 6 = 5$$

62. (d) According to question,

$$\frac{23 - x}{39 - x} = \frac{32 - x}{56 - x}$$

$$23 \times 56 - 79x + x^2 = 39 \times 32 - 71x + x^2$$

$$8x = 23 \times 56 - 39 \times 32$$

$$x = 23 \times 7 - 39 \times 4$$

$$x = 161 - 156 = 5$$

Mean proportion

$$= \sqrt{(x + 4)(3x + 1)} = \sqrt{9 \times 16} = 12$$

63. (d) According to question,

$$[8(x + y)^3 - 27(x - y)^3] \div (5y - x) = Ax^2 + Bxy + Cy^2$$

$$\frac{[2(x+y)-3(x-y)][4(x+y)^2 + 6(x+y)(x-y) + 9(x-y)^2]}{5y-x}$$

$$= Ax^2 + Bxy + Cy^2$$

$$\frac{(5y-x)[4x^2 + 8xy + 4y^2 + 6x^2 - 6y^2 + 9x^2 - 18xy + 9y^2]}{5y-x}$$

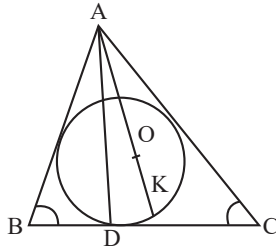
$$= Ax^2 + Bxy + Cy^2$$

$$19x^2 - 10xy + 7y^2 = Ax^2 + Bxy + Cy^2$$

$$A = 19, B = -10, C = 7$$

$$A + B + C = 19 - 10 + 7 = 16$$

64. (d) According to question,



$$\angle BAC = 180^\circ - (80^\circ + 64^\circ) = 180^\circ - 144^\circ = 36^\circ$$

Since the Circle is inscribed within a triangle, AK passing through the center must be angle bisector of $\angle A$. Therefore,

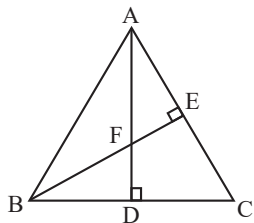
$$\angle BAK = \angle CAK = \frac{1}{2} \times 36^\circ = 18^\circ$$

$$\text{Now, } \angle BAD = \angle ADC - \angle ABD = 90^\circ - 80^\circ = 10^\circ$$

Therefore,

$$\angle DAK = \angle BAK - \angle BAD = 18^\circ - 10^\circ = 8^\circ$$

65. (b) According to question,



$$\triangle AEF \sim \triangle BDF \text{ (by AA similarity)}$$

$$\angle DBF = \angle EAF$$

Again,

$$\angle DBF = \angle EAF$$

$$\angle BDF = \angle ADC$$

$$\triangle BDF \sim \triangle ADC \text{ (by AA similarity)}$$

$$\frac{BD}{AD} = \frac{DF}{DC} = \frac{BF}{AC}$$

$$\text{Given, } BF = AC$$

$$BD = AD; DF = DC$$

$$\angle ABD = \angle BAD = 45^\circ$$

66. (d) Let the altitude of $\triangle DEF$ corresponding to $\triangle ABC$ be x .

Now, we know

Ratio of Areas = (ratio of corresponding sides)²

$$\frac{100}{49} = \frac{5^2}{x^2}$$

$$x = 5 \times \frac{7}{10} = 3.5$$

So, option (d) is correct.

67. (b) According to question,

Total production of B type of cars in 2013, 2014, 2015 and 2017

$$= 39 + 45 + 54 + 72 = 210$$

Total production of all types of cars in 2017

$$= 36 + 72 + 45 + 47 + 55 = 255$$

Required percent

$$= \frac{255 - 210}{255} \times 100 = 17.64$$

68. (d) Required angle

$$= \frac{60}{39 + 45 + 54 + 60 + 72} \times 360^\circ = 80^\circ$$

$$= \frac{60}{270} \times 360^\circ$$

69. (d) According to question,

$$\cos^2 \theta = 3(\cot^2 \theta - \cos^2 \theta)$$

$$4\cos^2 \theta = \frac{3\cos^2 \theta}{\sin^2 \theta}$$

$$\cos^2 \theta = (4\sin^2 \theta - 3) = 0$$

$$\sin \theta = \frac{\sqrt{3}}{2} \Rightarrow \theta = 60^\circ$$

$$\left(\frac{1}{2} \sec \theta + \sin \theta \right)^{-1} = \left(\frac{1}{2} \sec 60^\circ + \sin 60^\circ \right)^{-1}$$

$$= \left(\frac{1}{2} \times 2 + \frac{\sqrt{3}}{2} \right)^{-1} = \left(\frac{2 + \sqrt{3}}{2} \right)^{-1} = \frac{2}{2 + \sqrt{3}}$$

$$= 2(2 - \sqrt{3})$$

70. (d) According to question,

$$\cos \theta = \frac{2p}{(1 + p^2)}$$

$$\sin^2 \theta = 1 - \frac{4p^2}{1 + p^4 + 2p^2}$$

$$\sin^2 \theta = \frac{1 + p^4 + 2p^2 - 4p^2}{1 + p^4 + 2p^2}$$

$$\sin \theta = \frac{\sqrt{(1 - p^2)^2}}{\sqrt{(1 + p^2)^2}} = \frac{1 - p^2}{1 + p^2}$$

$$\tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{1 - p^2}{1 + p^2} \times \frac{1 + p^2}{2p} = \frac{1 - p^2}{2p}$$

71. (d) $5 \div 5$ of $5 \times 2 + 2 \div 2$ of $2 \times 5 - (5 - 2)$

$$\div 6 \times 2$$

$$= 5 \div (5 \times 5) \times 2 + 2 \div (2 \times 2) \times 5 - (5 - 2) \div 6 \times 2$$

$$= \frac{5}{25} \times 2 + \frac{2}{4} \times 5 - \frac{3}{6} \times 2 = \frac{2}{5} + \frac{5}{2} - 1$$

$$= \frac{4 + 25 - 10}{10} = \frac{19}{10}$$

72. (b) Since the given number is divisible by 72, it must be divisible by 4, 8 and 9. Since,

it is divisible by 4, last two digit must be divisible by 4. So, possible values of y are 2, 6. Since the number is divisible by 8 also, last three digits must be divisible by 8. Since 312 is divisible by 8, only possible value of y is 2. Now, the number is divisible by 9, therefore sum of the digit must be divisible by 9.

$$7 + 8 + 9 + x + 5 + 3 + 1 + y$$

$$= 33 + x + 2$$

$$= 35 + x \text{ for } x = 1, \text{ this sum is divisible by 9.}$$

$$5x - 3y = 5 \times 1 - 3 \times 2 = 5 - 6 = -1$$

73. (b) Amount in two year for the sum P

$$A = P \left(1 + \frac{10}{100} \right)^2 = P \times \frac{121}{100}$$

CI in two years

$$= A - P = \frac{121}{100} P - P = \frac{21}{100} P$$

Now, simple interest for $\frac{1}{2}$ year at 10%

$$P \times \frac{121}{100} \times 10 \times \frac{1}{2} = \frac{121}{2000} PA/Q,$$

$$\frac{21}{100} P + \frac{121}{2000} P = 1623 \frac{P(420 + 121)}{2000} = 1623$$

$$P = \frac{1623}{541} \times 2000$$

$$P = 3 \times 2000$$

$$P = 6000$$

74. (c) $x^3 + y^3 + z^3 - 3xyz = (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)$
 $= 19[(x + y + z)^2 - 2(xy + yz + zx) - (xy + yz + zx)]$
 $= 19[19^2 - 3 \times 114] = 19[361 - 342] = 19 \times 19 = 361$

$$\sqrt{x^3 + y^3 + z^3 - 3xyz} = \sqrt{361} = 19$$

75. (c) The required area of iron sheets = Total surface area of the tank - Area of the circular hole

$$= 2(10 \times 8 + 8 \times 6 + 10 \times 6) - \pi \left(\frac{1}{2} \right)^2$$

$$= 2(80 + 48 + 60) - 3.14 \times \frac{1}{4}$$

$$= 2 \times 188 - 0.785 = 376 - 0.785$$

$$= 375.215 \text{ m}^2$$

76. (c) In passive voice, the focus shifts from the subject (the one performing the action) to the object (the one receiving the action). The active sentence "Do not park your car in front of my house" is changed to passive voice as "Your car should not be parked in front of my house." This is the correct passive construction.

77. (c) Native (मूल निवासी) refers to a person, plant, or animal that originates or is naturally found in a particular place.

Occupant (आवासकर्ता) Refers to someone who occupies a space, but not necessarily someone originally from the place.

Alien (परदेशी) Refers to something or someone foreign, not originally from a place.

Resident (निवासी) Refers to someone who lives in a place, but not necessarily someone who is originally from there..

78. (c) "Escalate" means to increase or intensify, so the antonym would be "reduce," (कम करना) which means to decrease or lessen something. Other options:

raise (उठाना) Refers to increasing something, which is a synonym of escalate.

enlarge (बढ़ाना) Means to make something bigger, similar to escalating.

heighten (उच्च करना) Means to increase or make something higher, similar to escalate.

79. (a) "Tender" means soft or gentle, so the opposite would be "rough," (कठोर) which refers to something hard or harsh in texture or feeling.

warm (गर्म) Refers to temperature, which is not an antonym of tender.

gentle (कोमल) Means soft or kind, similar to tender.

soft (मुलायम) Means gentle or easy, very similar to tender.

80. (d) The correct word to fill in the blank is "afford," which means to be able to pay for something. In the context of the sentence, the government argues it can't afford the increase in teachers' salaries.

spare means to give something extra, which doesn't fit the context.

get a general verb that doesn't fit the specific meaning here.

stand means to endure, but doesn't make sense in this context.

82. (b) Investigating (जांच करना) To examine or research something carefully in order to discover facts or information.

scrutinized (गहनता से जांचना) Refers to examining something in great detail, often with a critical eye, but it doesn't fit the context of ongoing research.

inspecting (निरीक्षण करना) Refers to checking or looking at something carefully, typically for faults or issues, but doesn't fit the context of scientific research.

looking (देखना) Refers to casually observing, which is too general and not appropriate in this context of scientific study..

83. (c) The correct spelling of the word in option (c) is "competition", which means 'the activity or condition of striving to gain or win something by defeating or establishing superiority over'.

84. (c) In the given sentence, the Present Perfect Continuous tense is required to form a grammatically correct sentence.

The present perfect continuous usually emphasizes duration or the amount of time that an action has been taking place.

Thus, 'have been looking for a better job' is the most suited.

Hence, option (c) is the correct answer.

85. (b) The given sentence is in passive voice. The correct active voice for this should be: Gun-toting guards were guarding the main gate of the building. Hence, option (b) is the correct answer.

86. (d) The fragment in option (d) is grammatically incorrect. The fragment "and communications disrupting" does not maintain the sentence's parallelism.

All the verbs used in the sentence should be in the V2 form.

"Disrupting" must be replaced by "disrupted".

87. (d) The idiom "costs an arm and a leg" means something very expensive. e.g., The dress had cost her an arm and a leg.

88. (b) Past perfect tense should be used here, which shows something that happened before another action in the past.

Thus, "was left" is the correct filler for the blank.

89. (d) The first line suggests that the Italian mayor is a male (the possessive pronoun "his" has been used).

So, we need a masculine pronoun to fill in the blank.

Thus, the pronoun "he" is the correct word for the blank.

90. (d) Here, an adjective should be used which perfectly modifies the noun 'church'.

"Local", meaning "relating or restricted to a particular area or one's neighbourhood", is the correct filler for the given blank.

Other words such as "neighbour", "near", and "next" do not fit in the blank as it is not mentioned in the passage where the church was. Thus, 'local' is the most suited option.

91. (b) The given sentence implies that the mayor, along with the deputy mayor's father and a town councillor, was sweeping the piazza armed with a high-pressure hose.

'Thus, 'alongside', which means "together and in cooperation with", perfectly fits in the blank.

92. (c) The first sentence has the phrase "no manual workers, " implying that the last worker retired six months ago.

Thus, 'worker' is the most suitable noun here.

93. (a) Sentence C should be the first in sequence as it introduces the theme of the passage, i.e. "seizing of four tonnes of ivory".

Next will be sentence B, as it adds more information to the previous sentence.

AD is the mandatory pair because sentence A tells about the tracking of elephant tusks, and sentence D further details the transportation process.

The correct sequence will be: CBAD

94. (a) The incorrectly spelt word 'exemplify' means 'be a typical example of'.

95. (a) Talkative (बातूनी) Someone who talks a lot, often in a rambling or excessive manner. concise (संक्षिप्त) – Means brief and to the point, the opposite of garrulous.

throaty (गहरी आवाज़) – Refers to a deep or rough voice, unrelated to being garrulous.

guttural (गंभीर आवाज़ वाला) – Refers to a harsh or throaty voice, unrelated to being talkative.

96. (d) The underlined part is grammatically incorrect.

The given sentence is an example of the first conditional sentence, used to talk about things that might happen in the future.

The first conditional has the present simple after 'if', then the future simple in the other clause: if + present simple, ... will + infinitive. Thus, 'it will prove to be good' is the most suited one.

97. (b) The error lies in option (b), "in order that". It is a conjunction used to join two clauses.

"In order that" is used before the clause which indicates the purpose.

However, the sentence requires conjunction for "reason".

"Because" is the perfect replacement for "in order that" to make the sentence grammatically and contextually correct.

98. (c) If a situation gets out of hand, it can no longer be controlled.

For example: Two men on the street had an argument that got out of hand, and somebody called the police.

Hence, option (c) is the correct answer.

99. (d) Slant (झुकना) To lean or tilt in a particular direction; to cause something to be at an angle or to diverge from the vertical or horizontal position.

Other options:

Support (समर्थन) Means to bear the weight of something, unrelated to tilt.

Cross (क्रॉस) Refers to a mark made by two intersecting lines, not related to tilt.

Straighten (सही करना) Means to make something straight, which is the opposite of tilting..

100. (a) vagrant (भटकता हुआ व्यक्ति) A person without a fixed home or regular work, who wanders from place to place and lives by begging.

Truant (स्कूल से भागने वाला) Refers to someone who stays away from school without permission, not related to wandering or begging.

Itinerant (यात्रा करने वाला) Refers to someone who travels from place to place, but it doesn't specifically imply living by begging.

Migrant (प्रवासी) Refers to someone who moves from one place to another, typically for work or better living conditions, not specifically a beggar.

'Vagrant' is the correct answer for the given definition.