

SSC CGU Tier-I Examination **25-SOLVED PAPERS**

(2016–2019)

SECTIONS COVERAGE

1. General Intelligence & Reasoning 3. Quantitative Aptitude

2. General Awareness

4. English Language

2500 Questions with Answers and Detailed Explanations

Sanjeev Joon

SSC CGL Tier-I Examination **25-SOLVED PAPERS** (2016–2019)

Sanjeev Joon



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SSC CGL TIER-I EXAMINATION, 25 SOLVED PAPERS (2016-2019)

by Sanjeev Joon

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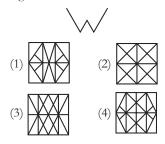


SSC – CGL

Combined Graduate Level (Tier-I) Examination Solved Paper – 06 June, 2019 (I)

PART-I (GENERAL INTELLIGENCE & REASONING)

1. Select the option in which the given figure is embedded.

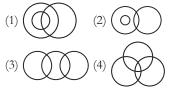


- 2. Arrange the following words in a logical and meaningful order:
 - 1. Student
 - 2. Job
 - 3. Interview
 - 4. Education 5. Retirement
 - 6. Degree

 - (1) 1, 5, 3, 6, 4, 2 (2) 1, 4, 6, 3, 2, 5
 - (3) 5, 3, 2, 1, 4, 6
 - (4) 3, 5, 4, 6, 1, 2
- 3. 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 given below are related.
 - Sadness : Excitement (1) War : Attack

 - (2) Treaty : Friendship
 - (3) Enrollment : Employment (4) Condemnation : Respect
- 4. Two mixtures contain milk and juice in the ratio of 2:1 and 4:5. If equal volumes of the two mixtures are mixed together, what would be ratio of milk to juice in the resulting mixture?

5. Select the Venn diagram that best illustrates the relationship between the following classes. Snakes, Reptiles, Poisonous



the following four 6. Three of numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

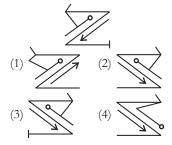
(1) 338	(2) 217
(3) 28	(4) 65

7. Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series. bac cab cd a

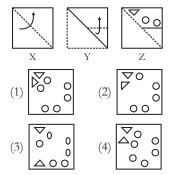
Dat	_cab_	_ca_	_a_	ac_	Ca	1
(1)	bdaba			1)	d.

(1) bdabc	(2) dcbac
(3) cadbc	(4) dacbd

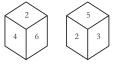
- 8. Which two signs should he interchanged in the following equation to make it correct? $10 + 5 \div 10 \times 8 - 10 = 16$ $(1) + and \div$ (2) - and + $(3) \div and \times$ $(4) \times and +$
- 9. Three of the following four words are alike in a certain way and one is different. Pick the odd word out. (2) Mahanadi (1) Krishna (3) Tapti (4) Godavari
- 10. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



11. The sequence of folding a piece of square paper (figure X and Y) and the manner in which the folder paper has been cut (figure Z) as shown. How will the paper appear when unfolded?



- 12. In a code language, COMPUTER is written as OCREPMTU. How will DAUGHTER be written in the same language? (1) READTHGU (2) ADTHREGU (3) ADREGUTH (4) ADERUGTH
- 13. Two different position of the same dice are shown. Which number will be at the top if 4 is at the bottom?



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

- 14. Raja's mother said to Raja, "My mother has a son whose son is Deepak. How is Deepak related to Raja?
 - (1) Uncle (2) Cousin
 - (3) Brother (4) Nephew
- **15.** Two statements are given followed by three conclusions numbered I, II and III. Assuming the statement to be true even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statement.

Statements:

No crow is a bird.

All bird are animals.

Conclusions:

- I. Some animals are crows.
- **II.** Some animals are birds.
- III. No animal is a crow.
- (1) Only conclusions I and III follow
- (2) None of the conclusions follows
- (3) Only conclusion III follows
- (4) Conclusion II and either conclusion I or III follows
- **16.** If CAB is coded as 6 and BED is coded as 40, then how will HAD be coded as?

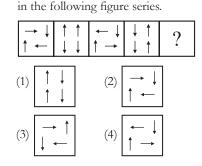
(1) 16	(2)	52
--------	-----	----

- (3) 32 (4) 46
- Select the set in which the number are related in the same way as are the numbers of the following set. (5, 13, 12)
 - (1) (13, 17, 11) (2) (11, 15, 9) (3) (15, 19, 13) (4) (6, 10, 8)
- Three of the following four letterclusters are alike in a certain way and one different. Pick the odd one out.

(1) RQST (2) FGHJ (3) MLNO (4) CBDE

- **19.** 'Cinema' is related to 'Audience' in the same way as 'Church' is related to '......'.
 - (1) Congregation
 - (2) Meditation

- (3) Concentration
- (4) Prayer
- **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.
 - 7:32
 - (1) 3:11 (2) 13:98 (3) 12:85 (4) 16:145
- **21.** Select the figure that will come next



22. How many squares are there in the following figure?





23. 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. MNOP : LONQ :: FGHI : ?

(1) GFIJ	(2) EGHJ
3) DHGK	(4) EHGJ

24. Select the set in which the numbers are related in the same way as are the numbers of the following set (8, 12, 24)
(1) (6, 9, 18) (2) (12, 20, 40)

· /	· · ·	/	· ·	<pre></pre>	·	/	/
(3)	(6, 10,	18)	(4)	(9,	18,	27)	

25. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.
98, 95, 86, 82, 66, ?, 36

(1) 58
(2) 60
(3) 61
(4) 63

Part-II (General Awareness)

- 26. Which Indian received the Nobel Peace Prize after Mother Teresa?(1) K Radhakrishnan(2) Fali Nariman
 - (3) P Sathasivam
 - (4) Kailash Satyarthi
- 27. Which of the following metals is the most reactive metal?(1) Copper (2) Calcium
 - (3) Iron (4) Zinc
- **28.** International Day of Forests 2019 was observed on 21st March with the theme to raise awareness on how sustainably managed forests provide a wide array of contributions.
 - (1) Pollution-free Forests
 - (2) Forests and Education
 - (3) Forests and Environment(4) Forests Our savior
- 29. Which of the following metals is the most ductile metal?(1) Tin(2) Gold
 - (3) Copper (4) Aluminium
- **30.** Right to move freely throughout the territory of India is a fundamental right under of the Constitution of India.
 - (1) Article 24 (2) Article 21
 - (3) Article 14 (4) Article 19
- 31. Which of the following comes under the Quaternary sector?(1) Information Technology(2) Mining
 - (3) Manufacturing
 - (4) Fisheries
- **32.** The colourful art named Nandna block print, which uses graceful yet aligned arrangements of motifs on fabric, is practiced in Tarapur Village of
 - (1) Uttarakhand
 - (2) Madhya Pradesh
 - (3) Odisha
 - (4) Maharashtra
- **33.** Who was awarded the Rabindranath Tagore Literary Prize 2019 for the Novel 'Solo'?

- (1) Nayanjyot Mukherjee
- (2) Rana Dasgupta
- (3) Amitabh Ghosh
- (4) Jhumpa Lahiri
- 34., which connects Sikkim with Tibet, was closed after the Chinese aggression on India in 1962 but was reopened in 2006 as the governments of the two countries decided to enhance their trade through land routes.
 - (1) Imis La (2) Pensi La
 - (3) Lanak La (4) Nathu La
- 35. Who among the following was a slave of Muhammad Ghori? He became the ruler after the death of his master and founded the Slave Dynasty.
 - (1) Ghiyas-ud-din Balban
 - (2) Iltutmish
 - (3) Nasir-ud-din Mahmud
 - (4) Qutab-ud-din Aibak
- 36. Name the Indian Space Research Organization (ISRO) chairman and Padma Bhushan Award who created and unleashed a historical moment when Mars Orbiter became the first Indian spacecraft to enter Martian orbit in a maiden attempt.
 - (1) Sundar Pichai
 - (2) K Radhakrishnan
 - (3) Fali Nariman
 - (4) Nandan Nilekani
- 37. Which is the longest national highway in India?
 - (1) National Highway 48
 - (2) National Highway 44
 - (3) National Highway 53
 - (4) National Highway 27
- 38. Lok Adalat have been created under
 -
 - (1) Legal Services Authority Act
 - (2) Administration of Justice Act
 - (3) Arbitration and Conciliation Act
 - (4) Legal Conciliation Act
- 39. Which was the first Muslim dynasty that ruled India?
 - (1) Slave dynasty
 - (2) Tughlaq dynasty

- (3) Lodhi dynasty
- (4) Khilji dynasty
- 40. Which of the following ministries implemented the Midday Meal Scheme?
 - (1) Ministry of Social Justice and Empowerment
 - (2) Ministry of Home Affairs
 - (3) Ministry of Human Resource Development
 - (4) Ministry of Social Welfare
- 41. World Day 2019 was observed on 22nd March with the theme 'Leaving no one behind' to focus on marginalized groups.
 - (1) Environment
 - (2) Forest
 - (3) Water
 - (4) Petroleum
- 42. In February 2019, won a gold medal at the Makran Cup in Chabahar, Iran. (1) Manish Kaushik
 - (2) Deepak Singh
 - (3) Rohit Tokas
 - (4) Satish Kumar
- 43. In February 2019, India won gold medal/s and five silver medals at the Makran Cup Boxing in Chabahar, Iran. (1) Two (2) Three
 - (3) Four (4) One
- 44. The Badami Chalukyas first had their capital at before they moved it to Badami. (1) Pattadakal (2) Aihole (3) Hubli (4) Bijapur
- 45. What is deposited on iron in the process of galvanization? (1) Copper (2) Zinc (3) Tin (4) Aluminium
- 46. The popular Bagh cave paintings are found in (1) Madhya Pradesh
 - (2) Himachal Pradesh
 - (3) Sikkim
 - (4) Odisha
- 47. Where is the Bandipur National Park located?

- (1) Karnataka (2) Kerala
- (3) Gujarat (4) Sikkim
- 48. was the first Muslim ruler whose empire covered almost the whole of India up to its extreme south.
 - (1) Allaudin Khilji
 - (2) Jalal-ud-din Khilji
 - (3) Ghiyas-ud-din Balban
 - (4) Firoz Shah Tughlaq
- 49. Who founded and named the science of electromagnetism? (1) Michael Faraday (2) James Clerk
 - (3) Hanswer Christian Oersted
 - (4) Andre Marie Ampere
- 50. Which of the following destroys the ozone layer? (1) Sulphur (2) Carbon
 - (3) Chlorine (4) Silicon

PART-III (QUANTITATIVE APTITUDE)

51. The table shows the production of different types of cars by a company (in thousands) in 5 years.

Car Year	А	В	С	D	Е
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

What is the ratio of the total production of type C cars in 2015 and type D cars in 2017 taken together to the total production of type B cars in 2016 and type A cars in 2017 taken together?

- (1) 12:11 (2) 13:10(3) 11:9 (4) 4:3
- 52. A and B are travelling towards each other from the points P and Q respectively. After crossing each other, A and B take $6\frac{1}{8}$ hours and
 - 8 hours respectively to reach their destinations Q and P. If the speed

of B is 16.8 km/h, then the speed (in km/h) of A is:

 (1) 20.8
 (2) 19.8

 (3) 19.2
 (4) 20.4

53. If $12 \cot^2 \theta - 31 \csc \theta + 32 = 0$, $0^\circ < \theta < 90^\circ$, then values of $\tan \theta$ will be:

(1)
$$\frac{4}{3}, \frac{3\sqrt{7}}{7}$$
 (2) $\frac{4}{5}, \frac{5\sqrt{7}}{7}$
(3) $\frac{5}{4}, \frac{4}{3}$ (4) $\frac{4}{5}, \frac{4}{3}$

- 54. ABCD is a trapezium in which AB || DC and its diagonals intersect at P. If AP = (3x - 1) cm, PC = (5x - 3) cm, BP (2x + 1) cm and PD = (6x - 5) cm, then the length of DB is: (1) 14 cm (2) 12 cm (3) 10 cm (4) 16 cm
- 55. The value of $\sqrt{\sec^2 \theta + \csc^2 \theta} \times \sqrt{\tan^2 \theta + \sin^2 \theta}$ is equal to: (1) cosec $\theta \sec^2 \theta$
 - (1) cosec θ sec θ (2) sin θ sec² θ
 - (2) $\sin \theta \sec^2 \theta$ (3) $\sin \theta \cos^2 \theta$
 - (4) $\csc \theta \cos^2 \theta$
- **56.** The volume of a metallic cylindrical
- pipe is 7480 cm³. If its length is 1.4 m and its external radius is 9 cm, then its thickness (given $\pi = \frac{22}{7}$) is: (1) 1 cm (2) 0.8 cm (3) 0.9 cm (4) 1.2 cm

57. If
$$x = a + \frac{1}{a}$$
 and $y = a - \frac{1}{a}$ then
 $\sqrt{x^4 + y^4 - 2x^2y^2}$ is equal to :
(1) $16a^2$ (2) 8
(3) $\frac{8}{a^2}$ (4) 4

58. G is the centroid of the triangle ABC, where AB, BC and CA are 7 cm, 24 cm and 25 cm respectively, then BG is:

(1) $6\frac{1}{3}$ cm (2) $8\frac{1}{3}$ cm (3) $5\frac{1}{2}$ cm (4) $4\frac{1}{6}$ cm

59. The table shows the production of different types of cars by a company (in thousand) in 5 years.

Car Year	А	В	С	D	Е
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

The total production of type B cars in all the five years is what percent more than the total production of type A, B and D cars in 2017?

(1) 49.5	(2) 4.5
(3) 57.3	(4) 32.2

60. The table shows the production of different types of cars by a company (in thousands) in 5 years.

`					
Car Year	А	В	С	D	Е
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

The average production of type D cars in 5 years is what percent less than the production of type E cars in 2018? (Correct to one decimal place) (1) 18.6 (2) 16.8

(1) 18.6	(2)	16.8
(3) 15.9	(4)	17.4

61. When x is subtracted from each of 21, 22, 60 and 64, the number so obtained in this order, are in proportion. What is the mean proportional between (x + 1) and (7x + 8)?

	(1) 27	(2)	18
--	--------	-----	----

- (3) 24 (4) 21
- **62.** The table shows the production of different types of cars by a company (in thousands) in 5 years.

Car Year	А	В	С	D	Е
2014	52	54	48	46	64
2015	47	45	53	50	45
2016	48	47	56	54	65
2017	43	50	57	67	63
2018	38	40	54	68	70

If the data related to the production of cars in 2018 is represented by pie chart, then the central angle of the sector representing the production of type C cars will be:

$(1) / 2^{\circ}$	(2) 59°
(3) 93°	(4) 91°

- 63. ABCD is a cyclic quadrilateral whose diagonals intersect at P. If AB = BC, ∠DBC = 70° and ∠BAC = 30°, then the measure of ∠PCD is:
 - (1) 35° (2) 50° (3) 55° (4) 30°
- **64.** Pipes A and B can fill a tank in one hour and two hours respectively while pipe C can empty the filled tank in one hour and fifteen minutes. A and C are turned on together at 9 a.m. After 2 hours, only A is closed and B is turned on. When will the tank be emptied?
 - (1) 12 : 10 p.m. (2) 11 : 30 a.m.
 - (3) 10 : 30 a.m. (4) 12 : 20 p.m.
- **65.** If the 8-digit number $2074 \times 4y2$ is divisible by 88, then the value of (4x + 3y) is:
 - (1) 49 (2) 36
 - (3) 42 (4) 45
- **66.** If $(8x^3 27y^3) \div (2x 3y) = (Ax^2 + Bxy + Cy^2)$, then the value of (2A + B C) is:
 - (1) 4 (2) 6
 - (3) 5 (4) 3
- 67. A circle is inscribed in \triangle ABC, touching AB at P, BC at Q and AC at R. If AR = 5 cm, RC = 6 cm and AB = 12 cm, then the perimeter of \triangle ABC is:

(1) 40 cm	(2) 32 cm
(3) 37 cm	(4) 36 cm

68. The income of A is 50% more than that of B. If the income of A is increased by 40% and the income of B is increased by 90%, then the percentage increase in their combined income will be (1) 64 (2) 55

(3) 60	(4)	70
--------	-----	----

- $69. \ \frac{\sin\theta \cos\theta + 1}{\sin\theta + \cos\theta 1} = ?$
 - $\sin \theta + \cos \theta 1$ (1) $\sec \theta \sin \theta$ (2) $\sec \theta \tan \theta$ (3) $\sec \theta + \tan \theta$ (4) $\sec \theta \tan \theta$
- 70. If ab + bc + ca = 8 and $a^2 + b^2 + c^2$

= 20, then a possible value of $\frac{1}{2}(a + b + c)[(a - b)^2 + (b - c)^2 + (c - a)^2]$ is: (1) 72 (2) 56 (3) 84 (4) 80

- 71. A shopkeeper marks his goods at 40% more than its cost price and allows a discount of 25% on the marked price. His gain or loss percent is:
 - (1) 5% loss (2) 15% gain (3) 10% loss (4) 5% gain
- **72.** The average of thirteen number is 80. The average of the first five numbers is 74.5 and that of the next five numbers is 82.5. The 11th number is 6 more than the 12th number and the 12th number in 6 less than the 13th number. What is the average of the 11th and the 13th numbers?

(1)	87	(2)	86

- (3) 86.5 (4) 87.5
 73. The value of (5 + 3 ÷ 5 × 5 ÷ (3 ÷
- 3 of 6) of $(4 \times 4 \div 4$ of $4 + 4 \div 4 \times 4$ 4) is:

(1) $8\frac{1}{5}$ (2) $7\frac{1}{3}$ (3) $9\frac{3}{5}$ (4) $6\frac{2}{3}$

74. A sum of ₹ 15,000 is lent at 16%p.a. compound interest. What is the difference between the compound interest for the second year and the third year?

(1) ₹ 544	(2) ₹ 445.44
(3) ₹ 454.88	(4) ₹ 548

75. A person sold an article at a loss of 8%. Had he sold it at a gain of 10.5%, he would have received ₹ 92.50 more. To gain 12%, he should have sold it for :

(1) ₹ 540.50
(2) ₹ 560
(3) ₹ 580
(4) ₹ 537.40

PART-IV (ENGLISH LANGUAGE) 76. Select the correct passive form of the given sentence. At night, lock the outer gate. (1) The outer gate is requested to be locked at night

- (2) The outer gate is locked at night
- (3) The outer gate is locked at night

(4) Let the outer gate be locked at night

77. In the sentence, identify the segment which contains the grammatical error.

Every employee of the company were given a two bedroom flat as Diwali bonus.

- (1) a two bedroom flat
- (2) as Diwali bonus
- (3) Every employee
- (4) were given
- **78.** Select the synonym of the given word.

Indelible

- (1) Illegible(2) Inerasable(3) Ineffective(4) Illegal
- 79. Select the wrongly spelt word.(1) Controversial
 - (2) Conquer
 - (3) Contemporary
 - (4) Cooperation

Directions (80–84): 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.

PASSAGE

Pigeon racing has become increasingly popular in parts of China ...(80)... the country's elite and its middle class. Sun Yan, the deputy general-secretary of Beijing Racing Pigeons Association, ...(81)... that at least 1,00,000 pigeon breeders live in Beijing, and ...(82)... 90,000 of them are registered with Racing Pigeons Associations at ...(83)... levels, to qualify for the games held in the spring and autumn. Competitions can be lucrative for ...(84)... owners, with some prizes amounting to tens of thousands of dollars. Liu said in recent years, pigeon racing has been surging in popularity across China.

80. (1) along (2) about								
(3) among	(4) against							
81. (1) clarified	(2) told							
(3) advised	(4) said							
82. (1) almost	(2) nearby							
(3) utmost	(4) exact							
83. (1) differ(2) differed(3) differential(4) different								
								84. (1) birds
(3) animal	(4) bird							
85. Select the most appropriate option								
of substitute the underlined seg-								
ment in the given sentence. If no								
substitution in required, select 'No								
improvement'.	1 '							
T	nis problem at least							
•	no problem at least							
for two nours.	for two hours.							

- (1) have been trying to solve
- (2) tried to be solving
- (3) No improvement
- (4) am try to solve
- 86. Select the most appropriate word to fill in the blank.The burning of the effigy of Ravana on Dussehra the burning of all evils.

(1) epitomizes (2) symbolizes

- (3) intensifies (4) personifies
- 87. Select the most appropriate meaning of the given idiom.
 Give someone the cold shoulder
 (1) Pamper someone
 (2) Do something pointless
 - (3) Ignore someone
 - (4) Give away a secret
- 88. Select the wrongly spelt word.(1) Expire (2) Explain
 - (3) Experience (4) Except
- **89.** Select the antonym of the given word.

Eminent

- (1) Exalted
- (2) Impressive
- (3) Inconspicuous
- (4) Distinguished
- **90.** Select the most appropriate word to fill in the blank.

There is hope that better forestry management will help in the of the wild life that is constantly facing threat because of increasing human activities. (1) guarding (2) salvating (3) supervision (4) conservation

- **91.** Given below are four jumbled sentences. Select the option that given their correct order.
 - 1. Mango, the so-called "king of fruits", is something of a national obsession of India.
 - 2. There was a bumper crop of mangoes in different states.
 - 3. It resulted in prices coming down and sales going up much to the delight of buyers and sellers alike.
 - 4. 2017 proved to be a very good year for mango lovers.
 - (1) CADB (2) CDAB
 - (3) ADCB (4) ADBC
- 92. Select the word which means the same as the group of words given.
 An enclosure of keep the birds in (1) Stable (2) Apiary
 - (3) Sanctuary (4) Aviary
- **93.** In the sentence identify the segment which contains the grammatical error.

Cyclone idai is regarded as one of the worst tropical cyclone on record to affect Arfica and the Southern Hemisphere as a whole.

- (1) Cyclone Idai is regarded
- (2) The worst tropical cyclone
- (3) To affect Africa
- (4) As a whole
- 94. Select the antonym of the given word.

Agony

(1) Anxiety	(2) Distress
(3) Comfort	(4) Misery

- **95.** Select the synonym of the given word.
 - Triumph
 - (1) Victory
 (2) Fight
 (3) Attack
 (4) Peace
- **96.** Select the correct active form of the given sentence.

Their children were brought up with great care.

- They have been bringing up their children with great care
- (2) They had brought up their children with great care
- (3) They brought up their children with great care
- (4) Their children brought them up with great care
- 97. Select the word which means the same as the group of words given.An inscription on a tombstone written in memory of the deceased.
 - (1) Slab (2) Basilica
 - (3) Epitaph (4) Pillar

- **98.** Given below are four jumbled sentences. Select the option that given their correct order.
 - A. Around 600 million of them live in areas of high to extreme water stress.
 - B. India is suffering from the worst water crisis, with one billion people living in water scarcity.
 - C. This is even more than that of China and US combined.
 - D. The reason is that at 24 per cent, India uses the most groundwater drawn out globally.
 - (1) ACBD (2) ADCB
 - (3) BADC (4) BDAC
- **99.** Select the most appropriate option of substitute the underlined segment in the given sentence. If no substitution in required, select No improvement.

If you listen to the English news, <u>it improve</u> your English.

- (1) It will improve
- (2) No improvement
- (3) It improved
- (4) It is improving
- **100.** Select the most appropriate meaning of the given idiom.
 - Pull yourself together
 - (1) Go to sleep
 - (2) Try to understand
 - (3) Calm down(4) Do a good job

Short Answers

1. (4) 11. (1) 21. (2) 31. (1) 41. (3) 51. (4) 61. (3)	 (2) (3) (4) (2) (2) (2) (2) (3) (3) (62. (1) 	 3. (4) 13. (1) 23. (4) 33. (2) 43. (4) 53. (1) 63. (2) 	 4. (4) 14. (2) 24. (1) 34. (4) 44. (2) 54. (2) 64. (4) 	 (1) (4) (3) (4) (4) (4) (5) (2) (2) (4) 	 (1) (3) (4) (2) (1) (1) (3) 	 7. (4) 17. (4) 27. (2) 37. (2) 47. (1) 57. (4) 67. (4) 	 8. (2) 18. (2) 28. (2) 38. (1) 48. (1) 58. (2) 68. (3) 	 (3) (1) (2) (2) (3) (1) (4) (4) (59. (4) (3) 	 (3) (2) (4) (3) (3) (1) (1)
61. (3) 71. (4) 81. (4)	62. (1) 72. (1) 82. (1)	63. (2)73. (3)83. (4)	64. (4) 74. (2) 84. (4)	65. (4) 75. (2) 85. (1)	66. (3) 76. (1) 86. (2)	67. (4) 77. (4) 87. (3)	68. (3) 78. (2) 88. (3)	69. (3) 79. (3) 89. (3)	70. (1) 80. (3) 90. (4)
91. (4)	92. (4)	93. (2)	94. (3)	95. (1)	96. (3)	97. (3)	98. (3)	99. (1)	100. (3)

PART-I (General Intelligence & Reasoning)

1. (4) On observing the options, the figure given under option (4) is indeed embedded in the original figure.



2. (2) Student (1) \rightarrow Education (4) \rightarrow Degree (6) \rightarrow Interview (3) \rightarrow Job (2) \rightarrow Retirement (5)

3. (4) Sadness is the opposite of Excitement.

Similarly, Condemnation is the opposite of Respect.

4. (4) Quantity of the mixture = 9 litres each

Therefore, in Mixture $1 \rightarrow$ Milk : Juice = 2 : 1 = 6 : 3; total = 9 In Mixture $2 \rightarrow$ Milk : Juice = 4 : 5; total = 9

After mixing both the mixtures the

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ratio
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Milk : Juice will be = 6 + 4 : 3 + 5 = 10 : 8 = 5 : 4

 (1) All snakes are reptiles. Some snakes and reptiles are poisonous.

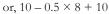
So, the best venn diagram is

6. (1) $(7)^3 - 5 = 343 - 5 = 338$ (6)³ + 1 = 216 + 1 = 217 (3)³ + 1 = 27 + 1 = 28 (4)³ + 1 = 64 + 1 = 65 7. (4) The series will be:

bac<u>d</u>ca/b<u>a</u>cd<u>c</u>a/bac<u>d</u>ca

8. (4) According to the question, Interchange the – and + sign the above equation become correct.

 $10 - 5 \div 10 \times 8 + 10$ (Applying BODMAS)



or,
$$10 - 4 + 10$$

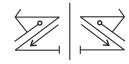
or, $20 - 4$
 $\therefore 16$

(3) Tapti rivor f

9. (3) Tapti river flows towards westwards while all the three rivers flows eastwards.

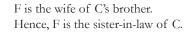
Hints & Solutions

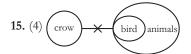
10. (3) In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.



11. (1) The paper is unfolded in two

steps : Step-1 Step-1 00 12. (3) C 0 Similarly, G H T **13.** (1) Moving in the clockwise direction: Cube 1 - 2 6 4 Cube 2 - 2 5 3 Clearly, 4 is opposite to 3. 14. (3) Mother Mother Raja Cousin Son Son Deepak





Conclusions:

- I. Some animals are crows. (False) it may be possible.
- II. Some animals are bird. (True)
- III. No animal is a crow. (False) it may be possible.

The correct option is (4) conclusion II and either conclusion I or III follows.

16. (3) C A B $3 \times 1 \times 2 = 6$ B E D $2 \times 5 \times 4 = 40$ \therefore H A D $8 \times 1 \times 4 = 32$

17. (4) The sum of all the numbers in the given number set is even

5 + 13 + 12 = 30The given options are: 13 + 17 + 11 = 41 (odd)11 + 15 + 9 = 35 (odd)15 + 19 + 13 = 47 (odd) $\boxed{6 + 10 + 8 = 24 \text{ (even)}}$

18. (2) Except FGHJ, all other options are having first two letters in reverse order.

Hence, option (2) is different from the rest.

19. (1) As 'Audience' is a group of people who come to the Cinema. Similarly, 'Congregation' is a group of people who assembled for religious worship in Church.

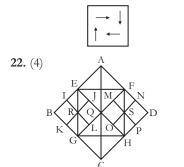
20. (2) $7 \times 4 + 4 = 32$ Similarly, $13 \times 7 + 7 = 98$

21. (2) In question figure, the 1st & 3rd figure contain similar objects and 2^{nd} & 4^{th} have same objects.

The 3rd figure formed after interchanging the two horizontal arrow lines.

Similarly, the 4th figure formed after interchanging left with its diagonal.

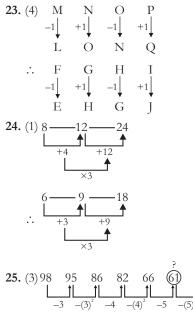
According to the pattern, the next figure in the series is:



The following squares formed in the figure:

ABCD, EFGH, EBGQ, FDHQ, AEQF, QGCH, BIRK, EIRJ, JRLQ, RKGL, QMSO, FMSN, NDPS, SPHO

Total number of squares = 14



Part-II (General Awareness)

26. (4) Kailash Satyarthi received the Nobel Peace Prize 2014 after Mother Teresa. He shared the prize with Malala Yusufzai of Pakistan. He is Children Activist and founder of Bachpan Bachao Andolan.

27. (2) Calcium is the most reactive element. Calcium comes after Lithium, Potassium and Strontium in Activity series of metals.

28. (2) International Day of Forests 2019 was observed on 21st March with the theme of Forest and Education.

29. (2) Gold is the most ductile metal, one ounce of gold can be drawn into more than 80 km of thin gold wire.

30. (4) Article 19(1) says:

(a) to freedom of speech and expression

(b) to assemble peaceably and without arms

(c) to form associations or unions(d) to move freely throughout the territory of India

(e) to reside and settle in any part of the territory of India

(f) to practice any profession, or to carry on any occupation, trade or business.

31. (1) Quaternary sector is a sector in the economy which include Knowledge – based economic sectors. Information Technology, Media Research and development, Software solution, Blogging, Designing etc., comes under this category.

32. (2) Nandna block print is colourful art printing or motifs on fabric practiced in Tarapur village of Madhya Pradesh. Nandna printed fabric was regularly worn by the ladies of Bhil tribe.

33. (2) Rana Dasgupta was awarded the Rabindranath Tagore Literary Prize 2019 for the novel 'SOLO'. He is the Literary Director of the JCB Prize for Literature.

34. (4) Nathu Lal Pass connects Sikkim to Tibet. Nathu La Pass was closed in 1962 after Chinese Aggression and reopened in 2006. Nathu La is one of the three open trading border posts between China and India, the others are Shipkila in Himachal Pradesh and Lipulekh at the trisection point of Uttarakhand-India, Nepal and China.

35. (4) Qutub-ud-din Aibak was slave of Muhammad Ghori and became ruler of Delhi in 1206 and his dynasty was recognized as Slave Dynasty. Aibek was succeeded by Aram Shah, and then by his former slave Iltutmish. He constructed Qutab Minar in Delhi and Adhai Din ka Jhopra in Ajmer.

36. (2) K Radhakrishnan was the chairman of Indian Space Research Organization during 2009-2014 and played vital role in making the Mars Orbital Mission a success. Mars orbital mission was planned and executed between 2010-2014 and India became the first country to make it a success in its maiden attempt.

37. (2) National Highway 44 is the longest highway in India. It begins from Srinagar and ends at Kanyakumari passing through Delhi and 10 States. Central Public Works Department (CPWD) is maintaining National Highway 44.

38. (1) Lok Adalat have been created under Legal Services Authority Act, 1987. Concept of Lok Adalat is mentioned under Article 39A and its objective is to provide free legal services for the citizens. Permanent and non permanent are the two types of Lok Adalat.

39. (1) Slave dynasty rule from 1206-90 and became the first Muslim dynasty ruled over India. Though India was invaded multiple times before this *i.e.*, Muhammad Qassim, Muhammad Gori etc. but Slave dynsaty became the first dynasty to rule over India. Qutub-ud-din Aibak, Iltutmish, Razia Sultan, Balban were eminent kings of this dynasty.

40. (3) Ministry of Human Resources Development is implementing Mid-Day Meal Scheme. The scheme was launched as a Centrally Sponsored Scheme on 15th August, 1995. In 2001 MDMS became a cooked Mid Day Meal Scheme under which every child in every Government and Government aided primary school was to be served a prepared Mid Day Meal with a minimum content of 300 calories of energy and 8-12 gram protein per day for a minimum of 200 days.

41. (3) Water day is observed every year on 22nd March. The theme of 2019 Water day was 'Leaving no one behind' to focus on marginalized groups. The sustainable development goal 6 aims to ensure availability and sustainable management of water for all by 2030. Every year, UN-Water sets a theme for World Water Day corresponding to a current or future challenge.

42. (2) Makran Cup Boxing Championship was held in feb, 2019 at Chabahar, Iran. India won one gold medal in the cup which was snatched by Deepak Singh.

43. (4) India won one gold medal and five silver medals at Makran Cup Boxing in Iran, in feb, 19. Gold medal is snatched by Deepak Singh who defeated Jaafar Naseri in Finals.

44. (2) Aihole is the first capital of Badami Chalukyas before they moved to Badami which is located at 35 kms from it. Aihole is an important archaeological site and recognized as UNESCO World heritage site. It is situated near Malaprabha river valley, in Bagalakote district of Karnataka.

45. (2) Galvanization is a process of applying a protective Zinc layer on Iron to prevent from rusting. Iron is generally dipped in hot molten zinc in this process. Zinc layer on Iron eradicated direct contact of Iron to atmospheric moisture, thus protecting it from corrosion.

46. (1) Bagh caves are situated in state of Madhya Pradesh, Dhar District. Bagh caves are known for rock cut architecture. Mainly inspired from Buddhism. All of the 9 caves are viharas- the caves used for as residence by Buddhist Monks.

47. (1) The Bandipur National Park is situated in Karnataka and it is established in 1974. It is a tiger reserve National Park. Bandipur is located in Gundlupet taluq of Chamarajanagar district.

48. (1) Allaudin Khilji covered almost the whole of India up to its extreme south. He fought many battles, conquered Gujarat, Ranthambhore, Chittoor, Malwa and Deccan during his reign of 20 years. He died in 1316 AD and after his death, Khilji dynasty came to end.

49. (4) Andre Marie ampere founded the science of electromagnetism. Electromagnetism is the science of charge and of the forces and fields associated with charge. Electricity and magnetism are two aspects of electromagnetism.

50. (3) Chlorine is responsible for destruction of ozone layer. Bromine also does the same effect. Chlorofluorocarbons, hydro chlorofluorocarbons, carbon tetra chloride etc., are some other ozone depletion compounds. Ozone layer absorbs harmful UV radiations of sun.

PART-III (QUANTITATIVE APTITUDE)

51. (4) Production of type C cars in 2015 = 53

Production of type D cars in 2017 = 67

Total production = 53 + 67 = 120Production of type B cars in 2016 = 47

Production of type A cars in 2017 = 43Total production = 47 + 43 = 90

Ratio = 120:90

= 4:3

52. (3) $\frac{\text{speed of A}}{\text{speed of B}}$

$$= \sqrt{\frac{\text{time taken by B to complete the remaining distance}}{\text{time taken by A to complete the remaining distance}}$$

$$\frac{\text{speed of A}}{\text{speed of B}} = \sqrt{\frac{8}{6\frac{1}{8}}}$$
$$= \frac{8}{7}$$

Speed of A =
$$\left(\frac{8}{7}\right)$$
 × speed of B

Speed of A = 19.2 km/hr**53.** (1) $12 \cot^2 \theta - 31 \csc \theta + 32 = 0$

 $12 (\csc^2 \theta - 1) - 31 \csc \theta + 32$ = 0

 $12 \operatorname{cosec}^2 \theta - 31 \operatorname{cosec} \theta + 20 = 0$ $(4 \operatorname{cosec} \theta - 5) (3 \operatorname{cosec} \theta - 4) = 0$ $\operatorname{cosec} \theta = \frac{5}{4} \operatorname{and} \frac{4}{3}$

When cosec
$$\theta = \frac{5}{4}$$

Then
$$\tan \theta = \frac{4}{\sqrt{(5)^2 - (4)^2}}$$

$$= \frac{4}{3}$$
when $\operatorname{cosec} \theta = \frac{4}{3}$,
then $\tan \theta = \frac{3}{\sqrt{(4)^2 - 3^2}}$

$$= \frac{3}{\sqrt{7}} = \frac{3\sqrt{7}}{7}$$
54. (2)

Given, AB || DC, AP = (3x - 1)

m, PC = (5x - 3) cm, BP = (2x + 1) cm,
PD = (6x - 5) cm

 $\Delta APB \sim \Delta CPD$

 $\frac{AP}{PC} = \frac{BP}{PD}$

 $\frac{3x - 1}{5x - 3} = \frac{2x + 1}{6x - 5}$

cm.

PD

 $18x^2 - 21x + 5 = 10x^2 - x - 3$ $8x^2 - 20x + 8 = 0$ $2x^2 - 5x + 2 = 0$ On solving further, $2x^2 - 4x - x + 2 = 0$ (x-2)(2x-1) = 0 $x = 2, \frac{1}{2}$ *.*•.

But x cannot be equal to $\frac{1}{2}$ as on putting $x = \frac{1}{2}$ we will get negative values for PD and PC, which is not possible. Putting x = 2BD = BP + PD= 2x + 1 + 6x - 5 = 5 + 7 = 12 cm **55.** (2) $\sqrt{\sec^2\theta + \csc^2\theta} \times \sqrt{\tan^2\theta - \sin^2\theta}$ = $\sec \theta \cdot \csc \theta \times \sin^2 \theta \cdot \sec \theta$ $= \sin \theta \sec^2 \theta$ **56.** (1) Given is $r_1 = 9$ cm, b = 1.4 m = 140 cmVolume of cylinder = 7480 cm^3 Volume of cylinder = $\frac{22}{7}[9^2 - r_2^2]$ $\times 140 = 7480$

 $= 81 - r_2^2 = 17$ $R_2 = \sqrt{64} = 8 \text{ cm}$ Required thickness of cylinder $= r_1 - r_2 = 9 - 8$ = 1 cm

57. (4)
$$\sqrt{x^4 + y^4 - 2x^2y^2}$$

 $\sqrt{(x^2 - y^2)^2} = x^2 - y^2$
 $\left(a + \frac{1}{a}\right)^2 - \left(a - \frac{1}{a}\right)^2 = 4$

58. (2) Triangle ABC is a right-angle triangle.

So, in ΔABC , median BP will be half of hypotenuse.

So,
$$BP = \frac{25}{2} = 12.5 \text{ cm}$$

Centroid divides the median in the ratio of 2:1.

:. BG =
$$\frac{2}{3} \times 12.5 = \frac{50}{6} = 8\frac{1}{3}$$

59. (4) Total production of type B cars = 54 + 45 + 47 + 50 + 40 = 236Total production of type A, B and D

cars in
$$2017 = 43 + 50 + 67 = 160$$

% increase $= 236 - \frac{160}{226}$

$$= 32.2\%$$

60. (1) Total production of type D cars in 5 years

= 46 + 50 + 54 + 67 + 68 = 285Average production of type D cars

$$=\frac{285}{5}=57$$

Production of type E cars in 2018 = 70

% Less =
$$\frac{(70 - 57)}{70} \times 100 \approx 18.6.$$

61. (3) Given numbers = 21, 22, 60 and 64

Now, x is subtracted from the number

So, (21 - x) : (22 - x) : : (60 - x) : (64 - x)

$$(22 - x) (60 - x) = (21 - x) (64 - x)$$

x = 8
Mean proportion of (x + 1) & (7x + 8)

Mean proportion of
$$(x + 1) \& (7x + 8)$$

= $\sqrt{9 \times 64} = 24$

Central angle =
$$\frac{54}{270} \times 360^{\circ}$$

= 72°

63. (2) Given, AB = BCSo, $\angle BAC = \angle BCA = 30^{\circ}$ and $\angle DBC = \angle DAC = 70^{\circ}$ (Angle made by cord CD) In cyclic quadrilateral, opposite angles are supplementary angle $\angle BAD + \angle BCD = 180^{\circ}$ So, $100^{\circ} + \angle BCD = 180^{\circ}$ $\angle BCD = 80^{\circ}$ So, angle $\angle PCD = 80 - 30 = 50^{\circ}$ **64.** (4) Total work = LCM of $(1, 2, \frac{5}{4})$ = 10 units Efficiency of $A = \frac{10}{1} = 10$ units per hour Efficiency of $B = \frac{10}{2} = 5$ units per hour Efficiency of C = $10 \div \frac{5}{4} = -8$ units per hour Work done by A + C in 2 hours = $(10 - 8) \times 2 = 4$ units Efficiency of B and C = -3

Therefore, time taken by B + C to

empty the tank $=\frac{4}{3}$ hours = 80 minutes Now the time = 11:00 + 1 hr 20 minutes

= 12:20 p.m.

65. (4) For a number to be divisible by 88, the number should be divisible by both 11 and 8.

A number is divisible by 8 if the number formed by the last three digits is divisible by 8.

4y2 should be divisible by 8.

So, y = 3 or y = 7

A number is divisible by 11 if the difference of the sum of its digits at odd places and the sum of its digits at even places, is divisible by 11.

$$(2 + 4 + 4 + 0) - (y + x + 7 + 2)$$

= 0 or 11
Now, $x + y - 1 = 0$ (for $y = 3$)
 $x + 3 - 1 = 0$

$$x = -2 \dots digit cannot be negative.$$

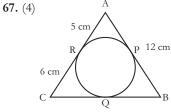
And, $x + y - 1 = 0$ (for $y = 7$)
 $x = -6 \dots digit cannot be negative$
So, $x + y - 1 = 11$
 $x = 5$ for $y = 7$
 $4x + 3y = 4 \times 5 + 3 \times 7$
 $= 41$ (not in options)
 $x = 9$ for $y = 3$
We have $x = 9$ and $y = 3$
 $4x + 3y = 4 \times 9 + 3 \times 3$
 $= 45$

66. (3)
$$\therefore \frac{8x^3 - 27y^3}{2x - 3y} = Ax^2 + Bxy + Cy^2$$

or, $\frac{(2x)^3 - (3y)^3}{2x - 3y} = Ax^2 + Bxy + Cy^2$
or, $\frac{(2x - 3y)(4x^2 + 6xy + 9y^2)}{2x - 3y}$

Comparing the above equation with $Ax^2 + Bxy + Cy^2$

We have
$$A = 4$$
, $B = 6$, $C = 9$
Then $(2A + B - C) = 8 + 6 - 9 = 5$



In the above figure,

We know that CR = CQ, AR = AP, BP = BQ (tangents on a circle from an external point are equal)

Therefore,

- AR = AP = 5 cm
- CR = CQ = 6 cm
- PB = AB AP = 12 5 = 7 cm
- BP = BQ = 7 cm

Perimeter of the triangle = AR + AP + BP + BQ + CQ + CR = 36 cm

68. (3) Starting income of B = 100Then, starting Income of A = 150

Income of A is increased by 40%, so

New income of A = $150 \times \frac{140}{100} = 210$

Income of B is increased by 90%, So, New income of B

$$=100 \times \frac{190}{100} = 190$$

Total starting income

= 100 + 150 = 250

Total new income = 210 + 190 = 400% increase = $\frac{400 - 250}{250} \times 100$ **69.** (3) $\frac{\sin\theta - \cos\theta + 1}{\sin\theta + \cos\theta - 1} =$ $\frac{\sin\theta - (\cos\theta - 1)}{\sin\theta + (\cos\theta - 1)} \times \frac{\sin\theta - (\cos\theta - 1)}{\sin\theta - (\cos\theta - 1)}$ $=\frac{\sin^2\theta + (\cos\theta - 1)^2 - 2\sin\theta(\cos\theta - 1)}{\sin^2\theta - (\cos\theta - 1)^2}$ On simplifying the equation, we get, $2 - 2\cos\theta + 2\sin\theta - 2\sin\theta\cos\theta$ $2\cos\theta(1-\cos\theta)$ $= \frac{(1 - \cos \theta) (1 + \sin \theta)}{\cos \theta (1 - \cos \theta)}$ $=\frac{1+\sin\theta}{\cos\theta}=\sec\theta+\tan\theta$ **70.** (1) $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab)$ + bc + ca) $= 20 + 2 \times 8 = 36$ a + b + c = 6Therefore, $\frac{1}{2}(a+b+c)[(a-b)^2+(b-c)^2+(c-b)^2]$ $(-a)^{2} = \frac{1}{2} (a + b + c) [2 (a^{2} + b^{2} + c^{2}) - 2]$ (ab + bc + ca)] $= \frac{1}{2} \times 6 [2 (20 - 8)]$ **71.** (4) Cost price (CP) = ₹ 100 Now, Marked price (MP) = ₹ 100 At 25% discount, Selling price (SP) = $140 \times \frac{75}{100}$ =₹105 % Profit = $\frac{105 - 100}{100} \times 100 = 5\%$ 72. (1) Sum of 13 number $= 13 \times 80 = 1040$ Sum of first five number $= 5 \times 74.5 = 372.5$ Sum of next five number $= 5 \times 82.5 = 412.5$ Sum of first 10 number = 372.5 + 412.5 = 785Now, sum of last three number = 1040 - 785 = 255

According to question, x + 6 + x + x + 6 = 255x = 81 11^{th} number = 87 13^{th} number = 87 Average $=\frac{87+87}{2}=87$ **73.** (3) $(5 + 3 \div 5 \times 5 \div (3 \div 3 \text{ of } 6) \text{ of}$ $(4 \times 4 \div 4 \text{ of } 4 + 4 \div 4 \times 4)$ = $(5 + \frac{3}{5} \times 5) \div (3 \div 3 \times 6)$ of $(4 \times 4 \div 16 + 4 \div 4 \times 4)$ $= 8 \div \left(\frac{1}{6}\right) \text{ of } \left(4 \times \frac{4}{16} + 1 \times 4\right)$ $= 8 \div \frac{1}{6} \text{ of } 5$ $= 8 \div \frac{5}{6}$ $= 8 \times \frac{6}{5} = \frac{48}{5} = 9\frac{3}{5}$ 74. (2) Amount after 1st year = $15000 (1 + \frac{16}{100}) = ₹ 17400$ Amount after 2nd year = 17400 (1 + $\frac{16}{100}$) = ₹ 20184 Amount after 3rd year = 20184 (1 + $\frac{16}{100}$) = ₹ 23413.44 Interest for 2^{nd} year = amount after 2 years - amount after 1 year = 20184 - 17400 = ₹ 2784 Interest for 3^{rd} year = amount after y years – amount after 2 year = 23413.44 - 20184 = ₹ 3229.44 Difference in interest = 3229.44 - 2784 = ₹ 445.44 75. (2) Cost price = 100 units and is sold at 8% loss, Selling Price (SP) = 100 × <u>92</u>/<u>100</u> = ₹ 92 Further 10.5% gain, Selling Price = $100 \times \frac{110.5}{100}$ =₹110.5 to the According question, difference in selling prices is ₹ 92.5 So, 110.5 - 92 = 18.5 18.5 unit = 92.5 1 unit =₹5

Therefore, cost price will be = $100 \times 5 = ₹500$ At 12% gain, selling price will be

Part-IV (English Language)

76. (1) Active form to Passive Voice:

• The places of subject and object will be interchanged in the sentence.

• Only 3rd form of verb or past participle will be used as a main verb in the passive voice.

The outer gate is requested to be locked at night.

77. (4) 'Were' must be replaced with 'was' to form a grammatically correct answer.

78. (2) **Indelible/Inerasable:** Marks making by ink or a pen that cannot be removed; incapable of being erased.

79. (3) Wrongly spelt word is contamporary and the correct spelling is 'Contemporary'.

80. (3) 'Among' means the same. The blank needs a preposition which implies 'occurring in or shared by (some members of a group or community)'.

81. (4) 'Said' meaning 'utter words so as to convey information' an opinion, a feeling or intention is the appropriate word to fill in the blank.

82. (1) 'Almost' meaning 'not more than' is the appropriate word to fill in the blank.

83. (4) 'Different' meaning 'not the same as another or each other; unlike in nature, form, or quality' is the appropriate word to fill in the blank.

84. (4) Appropriate word to fill in the blank \rightarrow bird.

85. (1) The tense of the underlined segment is incorrect. Present perfect continuous tense should be used.

For improvement of sentence use 'have been trying to solve' in place of 'try to solve'. **86.** (2) 'Symbolize' means 'be a symbol of' and it is the appropriate word to fill in the blank.

87. (3) If someone gives you the cold shoulder, they deliberately stop being friendly to you and ignore you.

88. (3) 'Experience' is the incorrectly spelt word. The correct spelling is 'experience' which means 'practical contact with and observation of facts or events'.

89. (3) Opposite of the Eminent is :

Inconspicuous: not clearly visible or attracting attention.

90. (4) 'Conservation' meaning 'preservation, protection, or restoration of the natural environment and of wildlife' is the appropriate word to fill in the blank.

91. (4) Logical order of the four jumbled sentences is \rightarrow ADBC

92. (4) **Aviary:** A large cage, building or enclosure for keeping birds in.

93. (2) "The worst tropical cyclone' is erroneous. The noun following the phrase 'one of the' is always a plural noun.

Delete 'one of' before 'the worst tropical' in the sentence.

94. (3) Opposite of Agony is:

Comfort: a state of physical ease and freedom from pain or constraint.

95. (1) **Triumph/Victory:** A great victory or achievement; an act of defeating an enemy or opponent in a battle, game, or other competition.

96. (3) Changing passive form to Active form.

• They brought up their children with great care.

97. (3) **Epitaph:** a phrase or form of words written in memory of a person who has died, especially as an inscription on a tombstone.

98. (3) Logical order of the four jumbled sentences \rightarrow BADC

99. (1) For improvement of sentence, use 'it will improve' in place of 'it improve'.

100. (3) The phrase 'pull yourself together' means 'to recover control of one's emotions'.

You've got to pull yourself together and find a job.

2

SSC – CGL

Combined Graduate Level (Tier-I) Examination Solved Paper – 04 June, 2019 (I)

Part-I

(GENERAL INTELLIGENCE & REASONING)

Select the set in which the numbers are related in the same way as the numbers are related in the set below. (3, 24, 4)
 (1) (2, 30, 8) (2) (12, 84, 4)

 $\begin{array}{c} (1) (2, 50, 6) \\ (3) (6, 35, 11) \\ (4) (4, 72, 9) \end{array}$

2. To correct the equation given below, which two symbols should be mutated?

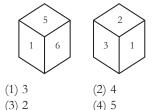
 $12 - 8 + 12 \times 9 \div 3 = 9$ (1) - and \div (2) + and \div

 $(1) - and \cdot (2) + and \cdot (3) + and \times (4) + and - (4)$

- $(3) + and \times (4) + and -$
- **3.** A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. 3, 7, 16, 35,?, 153

(1) 74 (2) 78 (3) 63 (4) 84

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



- **5.** As 'Advocate' is related to 'Justice' in the same way 'mediator' is related to
 - (1) Agreement
 - (2) Communications
 - (3) Decision
 - (4) Injustice

6. 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:

All rulers are machines. Some machines are expensive items.

Conclusions:

- **I.** Some rulers are expensive items. **II.** Some expensive items are
- machines.
- III. All expensive items are machines.(1) Both conclusions I and II follow.
- (1) Both conclusions 1 and 11 follow.(2) Both the conclusions II and III follow.
- (3) Only conclusion II follows.
- (4) Only conclusions I follows.
- **7.** Arrange the following words in a logical and meaningful order.
 - A. Buying
 - B. Food
 - C. Market
 - D. Vegetables
 - E. Cook
 - (1) A, D, E, C, B
 - (2) D, E, C, A, B (3) C, E, D, A, B
 - (4) C, D, A, E, B
- 8. ₹ 1875 are divided into 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. How much is C's share more than A's share?
 (1) ₹ 200
 (2) ₹ 250

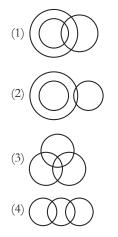
(1)
$$\checkmark 200$$
 (2) $\checkmark 250$

 (3) $₹ 225$
 (4) $₹ 500$

9. Three numbers from the following four numbers are somehow identical and one number is uneven. Select that uneven number.
(1) 254
(2) 217

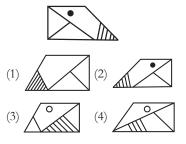
(1) 254	(2) 217
(3) 126	(4) 730

- 10. Select the letter combination that is placed sequentially on the blank spaces of the letter series below to complete the given series.
 b_bab_bc_abbb_ba_b
 (1) cbabc
 (2) bcbab
 - (3) cbbcb (4) cbbac
- Select the diagram that shows the best relationship between the given categories. Uncle, Relative, Rich



- 12. Three letter groups from the following four-letter groups are similar in some way and one is unequal. Select the odd alphabets.
 (1) CFIL (2) GHIJ
 (3) PSUX (4) MOQS
- **13.** A paper is folded and cut as shown below. What will it look like when open it?

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



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

(9, 35, 16)

(1) (36, 55, 25) (2) (25, 30, 4)

$$(3) (81, 65, 36) (4) (16, 50, 64)$$

- **16.** In a family of eight people, there are two couples, both couples have two children each. B and D are brothers and they each have two children. E is aunt of A, A is cousin of C. C is sister of H, H is cousin of G. F is the wife of B. How is H related to F?
 - (1) Nephew
 - (2) Son-in-law
 - (3) Brother-in-law
 - (4) Son
- **17.** How many squares are there in the figure given below?





18. In a code language, VICTORY is written as CIVSYRO. What will the TRAITOR be written in the same code language?
(1) ABTUROT (2) BTUROPT

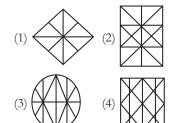
(2) 14

(4) 16

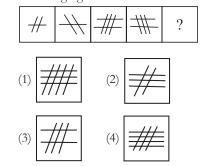
- (1) ARTHROT(2) RTHORT(3) RTAJORT(4) ARTJOTR
- **19.** Select the option in which the given figure is implicit



Rotation is not allowed



20. Select the next figure in the following figure series.



- **21.** 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 given below are related. Book : Encyclopedia
 - (1) Reptile : Python
 - (2) Furniture : Wood
 - (3) Tennis : Ball
 - (4) Tree : Forest
- **22.** 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.

36 : 84 : :? :?

- (1) 57:135 (2) 27:63 (3) 21:51 (4) 45:95
- 23. 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. CEGI : AGEK :: DFHJ :?
 (1) CHFI (2) CGIK
 (3) BDJK (4) BHFL
- 24. If DIG is coded as 25 and CUT as 49, then how will be KICK coded?
 (1) 43
 (2) 34
 (3) 41
 (4) 39
- **25.** Three words from the following four words are somehow similar and one word is uneven. Choose the odd word.
 - (1) Peanut(2) Fennel(3) Cumin(4) Mustard

Part-II (General Awareness)

- 26. Which country first introduced the Goods and Services Tax?
 (1) Canada (2) France
 (3) Germany (4) USA
- - (2) Tropical deciduous forest
 - (3) Himalaya Mountains
 - (4) Tropical Rainforest

.....

28. The virtue of catenation prevails in

(1) Sulfur
 (2) Nitrogen
 (3) Silicon
 (4) Carbon

- **29.** Who won the only gold medal for India in the 38th Gee Bee boxing tournament held in Helsinki, Finland?
 - (1) Naveen Kumar
 - (2) Kavinder Singh Bisht
 - (3) Mohammed Hussamuddin
 - (4) Shiv Thapa
- **30.** After the Olympic Council of Asia (OCA) has discarded in 2018, it has decided to resume in Asian Games, organised in Hangzhou, China, 2022.

SSC - CGL Tier-I Examination, Solved Paper - 04 June, 2019 (I)

- Football (2) Fencing
 Cricket (4) Volleyball
 In which of the following places was the rule of the Wadiyar dynasty?
 Patna (2) Mysore
 Jabalpur (4) Guwahati
 The report of Malimath Committee
- is related to which of the following? (1) Criminal Justice System Reform (2) Textile Sector Reforms
 - (3) Stock Market Reform
 - (4) Judicial Latency
- Which queen died in 1564 during the defending of the Garh Kantaga while fighting with Mughal forces?(1) Rani Avantibai
 - (2) Rani Durgavati
 - (2) Rain Durgavan
 - (3) Rani Rudrabara(4) Rani Ahilyabai
 - (4) Kall Millyabai
- 34. Methyl propane is an isomer of which of the following?(1) N-Butene (2) N-Pentane
 - (3) N-Hexane (4) N-Propane
- **35.** In which year did Dorabji Tata set up the Tata Iron and Steel Company (TISCO)?
 - (1) 1913 (2) 1919
 - (3) 1911 (4) 1907
- 36. According to the Economist Intelligence Unit 'Worldwide Cost of Living Survey, 2019', which of the following cities is not one of the three cheapest cities in India² (1) New Delhi (2) Mumbai (3) Bengaluru (4) Chennai
- 37. The edition of the Indo-Indonesia Coordinated Patrol (Indo-Indo Coperte) held from 19 March to 4 April, 2019 was inaugurated in Port Blair, Andaman and Nicobar Islands.
 (1) 33 (2) 23

(3) 45 (4) 42

- 38. The dance performed by the Buddhists to take away the evil spirits is a form of dance in Himachal Pradesh.
 (1) Gogra (2) Chham
 (3) Dhaam (4) Natya
- **39.** Name the first judge of the Supreme Court, against which the proposal of

- impeachment was presented in the Parliament of independent India.
- (1) Justice Ramaswami
- (2) Justice Mahajan
- (3) Justice Veerswamy
- (4) Justice Subba Rao
- 40. Which one of the following elements is a metalloid?
 (1) Tin
 (2) Silicon
 (3) Phosphorus
 (4) Bismuth
- 41. Which gas in its solid state is also called dry ice?(1) Carbon dioxide
 - (2) Oxygen
 - (3) Nitrogen
 - (4) Hydrogen
- 42. In 1026 AD, who attacked and looted the famous Somnath temple?(1) Muhammad Ghauri
 - (2) Mahmood Ghazni
 - (3) Genghis Khan
 - (4) Nadir Shah
- 43. Who was the first woman Director General of Police in Puducherry?(1) Kiran Bedi(2) Ashthi Tang
 - $(2) \cap 1$ $(2) \cap 1$ $(2) \cap 1$ $(2) \cap 1$ $(2) \cap 1$
 - (3) Sundari Nanda(4) Kanchan Choudhary
 - (4) Kalichali Choudhary
- 44. Which of the following substances is mined in Odisha's Badamphad mines?
 - (1) Hematite
 (2) Aurite
 (3) Dolomite
 (4) Bauxite
- 45. is the founder of Facebook.(1) Jimmy Wales(2) Brian Acton(3) Larry Page
 - (4) Mark Zuckerberg
- 46. In 1876, the Indian National Association was established by in Calcutta.(1) V.K. Chiplunkar
 - (2) Anand Mohan Bose
 - (3) Shishir Kumar Ghosh
 - (4) Badruddin Tyabji
- 47. The game dance from "Thoda' is associated with which state?(1) Andhra Pradesh
 - (2) Sikkim
 - (3) Himachal Pradesh
 - (4) Haryana

- **48.** Musi and Bhima are tributaries of river.
 - (1) Brahmaputra
 - (1) Mahanadi
 - (2) Manafiadi (3) Kaveri
 - (J) Kaven
 - (4) Krishna
- - Electron
 Positron
 Proton
 Neutron
- 50. Who was sworn in as the new Chief Minister of Goa after the death of Manohar Parrikar in March 2019?(1) H.D. Kumaraswamy(2) Ashok Gehlot
 - (2) ASHOK GEHIOU
 - (3) Vasundhara Raje(4) Pramod Sawant

PART-III (QUANTITATIVE APTITUDE)

- 51. The value of 2 × 3 ÷ 2 of 3 × 2 ÷ (4 + 4 × 4 ÷ 4 of 4 - 4 ÷ 4 × 4) is:
 (1) 8 (2) 2 (3) 1 (4) 4
- 52. In triangle ABC, the points F and E respectively on AB and AC sides are as follows : FE | |BC and FE divide the triangle into two parts with equal area. If AD ⊥ BC and AD intersect at FE at point G, then GD : AG =?
 (1) (√2 + 1) : 1
 - (2) $(\sqrt{2} 1) : 1$
 - (3) $2\sqrt{2}$: 1
 - (4) $\sqrt{2}$: 1
- 53. A truck covers a distance of 384 km at a certain speed. If the speed is reduced by 16 km/h, it will take two hours more to cover the same distance. What is the 75% of the original speed (in km/h)?
 (1) 54 (2) 42
 - (3) 45 (4) 48
- **54.** The table shows the production (in thousands) of different types of cars.

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

The total production of B type cars in the year 2012, 2014 and 2015 has been approximately what percentage more than the total production of A type cars in the year 2013 and 2016?

(1) 34.4	(2) 33.2
(3) 31.9	(4) 36.3

- 55. The average of twelve numbers is 42. The last five numbers have an average of 40 and the first four numbers have an average of 44. The sixth number is 6 less than the fifth number and 5 less than the seventh number. What will be the average of the 5th and 7th numbers?
 (1) 44 (2) 44.5
 (3) 43 (4) 43.5
- **56.** The table shows the production (in thousands) of different types of cars.

Year/ Cars	2012	2013	2014	2015	2016
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 E type cars is represented by pie-chart, then the data representing the production of cars in 2013 will be the central angle of the radius (sector):

	(1) 102°	(2) 84°
	(3) 70°	(4) 80°
57.	$\frac{2 + \tan^2 \theta + \cos^2 \theta}{\sec \theta \csc \theta}$	$\frac{t^2\theta}{dt}$ is equal to:
	(1) sec θ cosec θ	

(3)
$$\tan \theta$$
 (4) $\cos \theta \sin \theta$

58. Four years ago, the ratio of the ages of A and B 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 the present age of both of them? (1) 76 years (2) 72 years

(1) 76 years (2) 72 years (3) 80 years (4) 96 years

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

(1)
$$\frac{3\sqrt{3}}{2}$$
 (2) $3\sqrt{2}$
(3) $\frac{3\sqrt{2}}{2}$ (4) $2\sqrt{3}$

- **60.** If the number of 9 digits is 985x 3678y, the number is divisible by 72, then the value of (4x - 3y) will be: (1) 4 (2) 6 (3) 5 (4) 3
- 61. 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) 3 (2) 4 (3) 6 (4) 5
- 62. Someone sold an item at a loss of 15%. If he sold it for ₹ 30.60 more then he would get 9% profit. In order to get 10% profit, he has to sell the item in what amount?
 (1) ₹ 128.40
 (2) ₹ 130
 (3) ₹ 140.25
 (4) ₹ 132
- 63. An amount becomes 8,028 in 3 years at a fixed percentage interest rate and 12,042 in 6 years, when the interest is compounded annually. What is the actual amount?
 (1) ₹ 5,352
 (2) ₹ 5,235
 (3) ₹ 5,253
 (4) ₹ 5,325
- **64.** The table shows the production (in thousands) of different types of cars.

Year/ Cars	2012	2013	2014	2015	2016
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

What is the ratio of total production of C type cars in year 2013 & A in year 2014 and the total production of B in year 2016 & E type cars in 2015?

- (1) 11:12 (2) 12:11
- (3) 10:11 (4) 12:13
- 65. A solid cube with a volume of 13824 cm³ is cut into eight cubes of the same volume. The ratio of the surface area of the original cube and the total sum of the surface area of three smaller cubes will be:
 (1) 2:3
 (2) 2:1
 (3) 4:3
 (4) 8:3
- 66. If $x^4 + x^{-4} = 194$, x > 0, then what would be the value of $(x - 2)^2$? (1) 6 (2) 2 (3) 1 (4) 3
- 67. If $\sin \theta \frac{p^2 1}{p^2 + 1}$, then $\cos \theta$ is equal to:

(1)
$$\frac{2P}{P^2 - 1}$$
 (2) $\frac{2P}{1 + P^2}$
(3) $\frac{P}{1 + P^2}$ (4) $\frac{P}{P^2 - 1}$

- 68. If $(5\sqrt{5}x^3 81\sqrt{3}y^3) \div (\sqrt{5}x 3\sqrt{3}y)$, = $(Ax^2 + By^2 + Cxy)$, then the value of $(6A + B - \sqrt{15}C)$ will be? (1) 12 (2) 15 (3) 10 (4) 9
- **69.** The ratio of efficiencies of A, B and C is 2 : 5 : 3. On working together, all three of them can complete work in 27 days. In how many days will both B and C together complete the
 - $\frac{4}{9}$ th part of that work?
 - (1) 15 days (2) $17\frac{1}{7}$ days
 - (3) 27 days (4) 24 days
- 70. In ΔABC, the bisectors of ∠B and ∠C meet at point O inside the triangle.
 If ∠BOC = 122°, what will be the measure of ∠A?
 (1) 62° (2) 64°
 - (3) 72° (4) 68°
- 71. A circle is drawn under a triangle ABC. The circle 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 triangle ABC is:
 (1) 32 cm
 (2) 28 cm
 (3) 30.5 cm
 (4) 26.5 cm

72. The radius of a circle with O center is 10 cm, PQ and PR are the chords of 12 cm. PO, cuts the chord QR at point S. What is the length of OS?

(1) 3.2 cm	(2) 2.8 cm
(3) 3 cm	(4) 2.5 cm

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

Year/ Cars	2012	2013	2014	2015	2016
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 number of years in which the production of B type cars occurred in all the years is less than the average production of D type cars is as follows:

(1) 2 (2) 3 (3) 1 (4) 4

- 74. If 120 is reduced by x%, the same result will be obtained if 40 is increased by x%. Then x% of 210 will be what percentage less than (x + 20)% of 180?
 - (1) 18 (2) $16\frac{2}{3}$ (3) 20 (4) $33\frac{1}{3}$
- 75. After giving two successive discounts each of x% on the marked price of an item, total discount is ₹ 259.20. If the face value of the object is ₹ 720, what will be the value of x?
 (1) 25 (2) 24
 (3) 18 (4) 20

Part-IV (English Language)

- **76.** Given below are four jumbled sentences. Select the option that gives their correct order.
 - A. The cafe'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 cafe, which has just opened in Tokyo, is not for the fainthearted.
- (1) DCBA
 (2) ABCD
 (3) DBCA
 (4) ABDC
- 77. 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) due to labour strike
 - (3) the production was held up
 - (4) We had to decline
- 78. Select the wrongly spelt word—
 (1) Callous
 (2) Career
 (3) Calander
 (4) Carriage
- **79.** Select the most appropriate meaning of the given idiom.
 - At daggers drawn
 - (1) Deceiving somebody
 - (2) Bitterly hostile
 - (3) Friendly with each other
 - (4) Without hope
- 80. Select the word which means the same as the group of words given.
 A person, animal or plant much below the usual height

 (1) Creature
 (2) Witch
 (3) Wizard
 (4) Dwarf
- **81.** Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution in required, select 'No improvement'.

If you park your car here, the traffic police has fined you.

- (1) fine you
- (2) will fine you
- (3) fined you
- (4) No improvement

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

His company has the of producing the best cricket balls in the country.

(1) brand	(2) opinion
(3) position	(4) reputation

83. Select the antonym of the given word.

30	аг	C	2	
143	~			

(1) Seldom	(2) Scanty
(3) Few	(4) Plentiful

Directions (84–88): 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.

PASSAGE

Seoul's city government is asking people for help to correct poorly translated street signs with prizes on offer for ...(84)... who spot the most errors. It's running ...(85)... two-week campaign calling on Koreans and foreigners ...(86)... to keep their eyes peeled for ...(87)... in English, Japanese and Chinese text, the Korea Times reports. There's a ...(88)... 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.

84.	(1) that	(2) those
	(3) these	(4) this
85.	(1) a	(2) one
	(3) an	(4) the
86.	(1) alike	(2) similarly
	(3) likely	(4) same
87.	(1) blunder	(2) mistakes
	(3) guffaws	(4) oversight
88.	(1) particular	(2) important
	(3) signifying	(4) meticulous
89.	Select the syno:	nym of the given
	word.	
	Chronic	
	(1) Persistent	(2) Common
	(3) Ordinary	(4) Temporary
~ ~		

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

SSC - CGL Tier-I Examination, Solved Paper - 04 June, 2019 (I)

Around sixty bands in colourful took part in the Notting Hill Carnival.

- (1) clothings(2) costumes(3) apparels(4) dressing
- **91.** 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 heartbreaking," 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) BACD (2) BADC
 - (3) ABCD (4) DABC
- **92.** Select the wrongly spelt word— (1) Exploite (2) Explode
 - (3) Explicit (4) Expire
- **93.** Select the antonym of the given word.

Expansion

(1) Extension (2) Inflation (3) Compression (4) Augmentation

94. 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) Vagrant
(2) Itinerant

(1) vagiani	(2) Itilieran
(3) Migrant	(4) Truant

95. Select the correct active form of the given sentence.

Every passing vehicle was being thoroughly checked by the guards.

- (1) The guards have been thoroughly checking every passing vehicle.
- (2) Every passing vehicle were thoroughly checking the guards.
- (3) The guards have thoroughly checked every passing vehicle.
- (4) The guards were thoroughly checking every passing vehicle.
- **96.** Select the correct passive form of the given sentence.

Do not buy medicines without the doctor's prescription.

- (1) Medicines could not be bought without the doctor's prescription.
- (2) Medicines need not be bought without the doctor's prescription.
- (3) Medicines should not be bought without the doctor's prescription.
- (4) Medicines might not be bought without the doctor's prescription.

- 97. Select the most appropriate meaning of the given idiom.
 To play ducks and drakes

 To use recklessly
 To change places
 To act cleverly
 To be friendly

 98. 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) Although

- (2) It tore across
- (3) At least 157 people
- (4) Cyclone Idai killed
- **99.** Select the antonym of the given word.

Coerce

(1)	Pressurise	(2) Cajole	
$\langle \mathbf{O} \rangle$	т	(2) T 1	

- (2) Leave (3) Enchant
- **100.** Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution in required, select 'No improvement'.

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

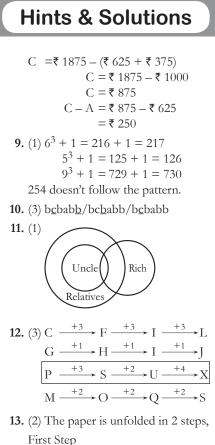
- (1) has demanded higher wages
- (2) No improvement
- (3) demanded higher wages
- (4) have been demanding higher wages

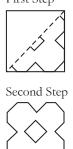
Short Answers

 (4) (1) (1) (1) (2) (1) (1) (2) (1) (2) (1) 	 (2) (3) (22. (2) (2) (32. (1) (42. (2) (2) (52. (2) (62. (3) (72. (2) 	 (1) (2) (23. (4) (33. (2) (43. (3) (53. (4) (63. (1) (73. (1) 	 4. (3) 14. (2) 24. (4) 34. (1) 44. (1) 54. (3) 64. (4) 74. (2) 	 (1) (1) (1) (1) (1) (1) (2) (2) (3) (4) 	 (3) (1) (2) (2) (2) (2) (2) (2) (2) (4) (1) 	 7. (4) 17. (2) 27. (1) 37. (1) 47. (3) 57. (1) 67. (2) 77. (1) 	 8. (2) 18. (1) 28. (4) 38. (2) 48. (4) 58. (3) 68. (1) 78. (3) 	 9. (1) 19. (2) 29. (2) 39. (1) 49. (1) 59. (1) 69. (1) 79. (2) 	 (3) (1) (3) (4) (2) (4) (6) (1) (2) (2) (4) (4)
								. ,	

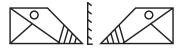
PART-I (GENERAL INTELLIGENCE & REASONING) **1.** (4) $3 \times 4 = 12 \times 2 = 24$ Similarly, $4 \times 9 = 36 \times 2 = 72$ **2.** (2) Interchange the (+) and (\div) sign $12 - 8 \div 12 \times 9 + 3$ (applying BODMAS) or, $12 - 2 \times 3 + 3$ or, 12 - 6 + 3or, 15 - 6or, 9 3. (1) The series will be, $3 \times 2 = 6$, 6 + 1 = 7 $7 \times 2 = 14$, 14 + 2 = 16 $16 \times 2 = 32$, 32 + 3 = 3570 + 4 = 74 $35 \times 2 = 70$, $74 \times 2 = 148$, 148 + 5 = 1534. (3) Moving in clockwise direction Cube 1-156 Cube 2-132 Clearly, 6 is opposite to 2. 5. (1) Advocate helps in provide justice. Similarly, mediator helps in agreement. **6.** (3) Rulers Expensive items Machines Only conclusion II follows. 7. (4) The logical order of the words: Market (C) \rightarrow Vegetables (D) \rightarrow Buying (A) \rightarrow Cook (E) \rightarrow Food (B) 8. (2) 2A = B + C, After adding A on both sides,

> 2A + A = A + B + C 3A = A + B + C 3A = ₹ 1875 A = ₹ 625 4B = A + C After adding B on both sides 4B + B = A + B + C 5B = ₹ 1875 B = ₹ 375

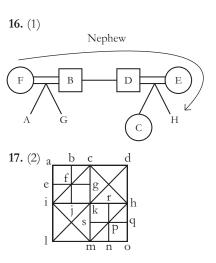




14. (2) In a plane mirror, a mirror image is a reflected duplication of an object that appears almost identical, but it is reversed in the direction perpendicular to the mirror surface. As an optical effect it results from reflection of substances such as a mirror or water.

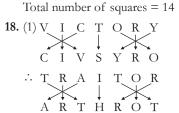


15. (1) $16 - 9 = 7 \times 5 = 35$ Similarly, $36 - 25 = 11 \times 5 = 55$

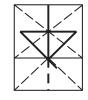


The numbers of squares are :

adol, chmi, abef, bcfg, efij, fgjk, acik, iklm, khmo, pqno, krsp, rhpq, spmn, cdkh.



19. (2) After observing the options we can see that the figure given under option (2) is indeed embedded in the original figure. It has been represented below,



20. (1) In the above series, the first figure has one horizontal line intersecting 2 vertical lines and the next figure showing its mirror image.

In the 3rd figure, there is two horizontal lines intersecting 3 vertical lines.

So, according to the above sequence, the next figure is:



21. (1) As, encyclopedia is a type of book. Similarly, Python is a type of reptile.

22. (2) 36 = 3 × 12
84 = 7 × 12
Similarly,
27 = 3 × 9
63 = 7 × 9
23. (4) C E G I

$$-2 | +2 | -2 | +2 |$$

A G E K
Similarly,
D F H J
 $-2 | +2 | -2 | +2 |$
B H F L
24. (4) DIG = 4 + 9 + 7
= 20 + 5 = 25
CUT = 3 + 21 + 20
= 44 + 5 = 49
∴ KICK = 11 + 9 + 3 + 11
= 34 + 5 = 39

25. (1) Except *peanut*, all the three are the types of ingredients used in making vegetables.

Hence, the odd word is option (1).

Part-II (General Awareness)

26. (2) France is the first country to implement GST in 1954. Most European countries introduced GST back in the 1970s-80s. China implemented GST in 1994 while Russia did it in 1991. The only major economy that does not have GST is USA.

27. (1) Sundari is a small or mediumsized evergreen tree which is found in the inland zone of mangrove forests in India. The Botanical name of Sundari is Heritiera littoralis ait. In India, the tree is found in the inland zone of mangrove forests along the coasts of peninsular India, the Sundarbans in the West Bengal state and the Andaman Islands it is often planted in gardens.

28. (4) In chemistry, catenation is the bonding of atoms of the same element into a series called a chain. Catenation occurs most readily with carbon, which forms covalent bonds with other

carbon atoms to form longer chains and structures.

29. (2) The 38th Gee Bee Boxing Tournament was held at Helsinki, Finland. The only gold medal for India was won by Kavinder Singh Bisht. He won against Indian counterpart Mohammed Hussamuddin in summit clash in the 56kg category.

30. (3) The Olympic Council of Asia (OCA) has decided to reintroduce Cricket in the 2022 Asian Games to be held at Hangzhou, China. Earlier, Cricket had featured in 2010 and 2014 Asian Games but was dropped from the 2018 Asian Games.

31. (2) The Wadiyar dynasty is an Indian Hindu dynasty that ruled the Kingdom of Mysore from 1399 to 1947. The dynasty was established in 1399 by Yaduraya Wodeyar. He ruled Mysore under the Vijayanagara Empire until 1423. After Yaduraya Wodeyar, the Mysore kingdom was succeeded by the Wadiyar rulers. The kingdom remained fairly small during this early period and was a part of the Vijayanagara Empire.

32. (1) The Malimath Committee gave 158 recommendations, but these were not implemented by the successive government recommendations of the committee.

It is the duty of the state to protect the fundamental rights of all citizens.

The Committee recommended for the review and re-enactment of the IPC, CrPC (Criminal Procedure Code) and Evidence Act and these laws should take a holistic view in respect to punishment, assestability and bailability.

33. (2) Rani Durgavati died fighting against Mughals while defending Garha Katanga in 1564.

Rani Durgavati Madavi was a ruling Queen of Gondwana from 1550 until 1564. She was born in the family of Chandel King Keerat Rai. She was born at the fort of Kalinjar.

34. (1) Butane or C_4H_{10} has two structural isomers called normal butane and isobutane, or i-butane.

According to IUPAC nomenclature, these isomers are called butane and 2-methylpropane.

35. (4) TISCO was started in 1907.

In 1907, Tata Team finally chooses Sakchi village in present-day Jharkhand, which has since grown into the steel town of Jamshedpur.

36. (2) According to economist intelligence unit report 2019, the most cheap cities in India are Bengaluru, Delhi and Chennai.

37. (1) The 33rd edition of India-Indonesia coordinated patrol (IND-INDO CORPAT) was inaugurated at Port Blair, Andaman & Nicobar Islands.

The IND-INDO CORPAT, 2019 was held from 19 March to 04 April, 2019.

Navies of both the countries have been carrying out coordinated patrolling twice a year since 2002 in an effort to keep the Indian Ocean Region (IOR) safe and secure for commercial shipping and international trade.

38. (2) The Chham Dance is a vibrant masked and costumed ritual with roots in Buddhism. The ritual is performed for the greater good of humanity, destruction of bad spirits and for moral instruction to viewers.

39. (1) Veeraswami Ramaswami was a judge of the Supreme Court of India and the first judge against whom removal proceedings were initiated in independent India.

40. (2) A matalloid is a chemical element that exhibits some properties of metals and some of non-metals. Boron, Silicon, Germanium, Arsenic, Antimony, Tellurium and Polonium are Metalloids.

41. (1) Dry ice is the common name for solid carbon dioxide (CO_2) . It gets this name because it does not melt into a liquid when heated; instead, it changes directly into a gas (This process is known as sublimation).

42. (2) In 1025 AD, Somnath Temple was destroyed and plundered by the Afghan ruler, Mahmud of Ghazni. The

temple was dedicated to Lord Shiva, was rebuilt by the Paramara king Bhoja of Malwa and the Solanki king Bhimdev I of Anhilwara between 1026 and 1042 AD.

43. (3) Puducherry will have its first woman Director General of Police (DGP) with S. Sundari Nanda being appointed to the top post in 2019. She is a 1988 batch police officer belonging to the AGMU cadre, has been transferred from National Capital Territory of Delhi (NCTD) and posted as Director General of Police (DGP) of Union Territory of Puducherry.

44. (1) The iron ore deposits are found in Badampahar mines of Odisha and Kudremukh deposits of Karnataka. In Badampahar, high-grade hematite ores are found.

45. (4) Facebook, Inc. is an American online social media and social networking service company based in California. It was founded by Mark Zuckerberg. It acquired Instagram, WhatsApp, Oculus and GrokStyle and independently developed Facebook Messenger, Facebook Watch and Facebook Portal.

46. (2) Indian National Association was the first declared Nationalist Organisation 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 merged in INC in 1885.

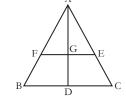
47. (3) Thoda is a sports dance belonging to Sikkim. It is a game of archery where the target is a dancing human, is played between two teams called pasha and saatha who identify themselves as descendants of Pandavas and Kauravas.

48. (4) **Major Tributaries of Krishna are:** Bhima River, Tungabhadra River, Koyna River, Musi River, Malaprabha River, Kundali River, Ghataprabha River, Yerla River and Warna River. Krishna River originates in the Western Ghats and conjoins the sea in the Bay of Bengal at Hamasaledevi in Andhra Pradesh. It flows through the states of Maharashtra, Karnataka and Andhra Pradesh. **49.** (1) J.J. Thomson, an English physicist who helped revolutionise the knowledge of atomic structure by his discovery of the electron (1897). He received the Nobel Prize for Physics in 1906 and was knighted in 1908.

50. (4) Pramod Pandurang Sawant is an Indian politician who is the 13th and current Chief Minister of Goa.

PART-III (QUANTITATIVE APTITUDE)

51. (2) $2 \times 3 \div 2$ of $3 \times 2 \div (4 + 4 \times 4)$ $\div 4$ of $4 - 4 \div 4 \times 4$ $= 2 \times 3 \div 6 \times 2 \div (4 + 4 \times 4 \div 16)$ $-1 \times 4)$ $= 2 \times \frac{3}{6} \times 2 \div (4 + 4 \times \frac{4}{16} - 4)$ $= 2 \div (4 + 1 - 4)$ = 252. (2)



Since, EF | |BC

$$\frac{AF}{FB} = \frac{AG}{GD} = \frac{AE}{EC}$$

$$\Rightarrow \frac{AF}{AB} = \frac{AG}{AD} = \frac{AE}{AC}$$
Also, $\Delta ABC \sim \Delta AFE$

$$\frac{Area (\Delta ABC)}{Area (\Delta AFE)} = \frac{AD^2}{AG^2}$$

$$\frac{AD^2}{AG^2} = \frac{2 \times Area (\Delta AFE)}{Area (\Delta AFE)}$$

$$\frac{AD}{AG} = \frac{\sqrt{2}}{1}$$
$$\frac{AD}{AG} - 1 = \frac{\sqrt{2}}{1} - 1$$
$$\frac{DG}{AG} = \frac{(\sqrt{2} - 1)}{1}$$

53. (4) The truck at speed = v km/h takes *t* hrs and at speed (v - 16) km/h it takes (t + 2) hrs.

Then,

$$384\left(\frac{1}{t} - \frac{1}{t+2}\right) = v - (v - 16)$$

$$384\left(\frac{t+2-t}{t(t+2)}\right) = 16$$

$$24 \times \frac{2}{t(t+2)} = 0$$

$$t^2 + 2t - 48 = 0$$

$$(t+8) (t-6) = 0$$

$$t = 6$$
Original Speed = $\frac{384}{6}$

$$= 64 \text{ km/h}$$
75% of Original Speed

$$= 64 \times \frac{75}{100}$$

$$= 48 \text{ km/h}$$

54. (3) Production of B type car in 2012,
2014 and 2015

= 42 + 40 + 38 = 120 thousand
Production of A type car in 2013

and 2016 = 35 + 56 = 91 thousand

Required $\% = \frac{120 - 91}{91} \times 100$ = 31.86 ≈ 31.9% **55.** (2) Sum of twelve numbers = $12 \times 42 = 504$ Sum of last five numbers $= 5 \times 40 = 200$ Sum of first four numbers $= 4 \times 44 = 176$ Sum of 5th, 6th and 7th numbers = 504 - (200 + 176)= 504 - 376= 128 5^{th} , 6^{th} and 7^{th} numbers are (x + 6), x and (x + 5). Then, x + 6 + x + x + 5 = 1283x = 128 - 11 $x = \frac{117}{3} = 39$ Average of 5th and 7th number $=\frac{x+6+x+5}{2}$ $=\frac{39+39+11}{2}$ $=\frac{89}{2}=44.5$

56. (2) Total production of E type cars throughout the given years = 20 + 42 + 40 + 35 + 43

= 180 thousand

= 5352

Required angle

 $=\frac{42}{180} \times 360^{\circ}$ $= 42 \times 2^{\circ}$ $= 84^{\circ}$ **57.** (1) $\frac{2 + \tan^2 \theta + \cot^2 \theta}{\sec \theta \csc \theta}$ $\frac{1 + \tan^2 \theta + 1 + \cot^2 \theta}{\sec \theta \csc \theta}$ $\underline{\sec^2\theta + \csc^2\theta}$ $\sec\theta \csc\theta$ = $\sec \theta \sin \theta + \csc \theta \cos \theta$ $\frac{\sin\theta}{\cos\theta} + \frac{\cos\theta}{\sin\theta}$ $\cos \theta$ sinθ $\sin^2\theta + \cos^2\theta$ $\sin\theta\cos\theta$ = $\sin\theta\cos\theta$ $= \sec \theta \csc \theta$ 58. (3) Ages of A and B four years ago = 4x and 5x $\frac{4x+4+8}{5x+4+8} = \frac{11}{13}$ 55x - 52x = 156 - 1323x = 24x = 8Sum of the present ages of A and B = 4x + 4 + 5x + 4= 9x + 8= 72 + 8= 80 **59.** (1) $4 - 2\sin^2 \theta - 5\cos \theta = 0$ $4 - 2(1 - \cos^2 \theta) - 5\cos \theta = 0$ $2\cos^2\theta - 5\cos\theta + 2 = 0$ $2\cos^2\theta - 4\cos\theta - \cos\theta + 2 = 0$ $(2\cos\theta - 1)(\cos\theta - 2) = 0$ $\therefore -1 \le \cos \theta \le 1$ $\cos \theta \neq 2$ or. $\cos \theta = \frac{1}{2} = \cos 60^{\circ}$ or, $\theta = 60^{\circ}$ or, $\therefore \sin \theta + \tan \theta = \frac{\sqrt{3}}{2} + \sqrt{3}$ $=\frac{3\sqrt{3}}{2}$

60. (1) 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 0, 4, 8. Since it is divisible by 8, last three digits must be divisible by 8. As 780 and 788 are not divisible by 8, the only possible value of y is 4. Now, since the number is divisible by 9, its sum of digits will be divisible by 9. 9 + 8 + 5 + x + 3 + 6 + 7 + 8 + y= 46 + x + y= 46 + x + 4= 50 + xFor x = 4, 54 is divisible by 9. $4x - 3y = 4 \times 4 - 3 \times 4 = 4$ **61.** (4) $(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy)$ $+ yz + y^{2}$ $19^{2} = 133 + 2 (xy + yz + y^{2})$ 2y (x + y + z) = 361 - 133 $2\gamma \times 19 = 228$ $y = \frac{228}{38} = 6$ Now, cubes x + z = 19 - yx + z = 19 - 6 = 13 $x - z = \sqrt{(x + z)^2 - 4xz}$ $=\sqrt{13^2-4y^2}$ $=\sqrt{169 - 4 \times 36}$ $=\sqrt{169-144}=5$ **62.** (3) CP = ₹ 100, then SP = ₹ 85 SP for 9% profit = ₹ 109 Difference in SP = 109 - 85 = 24When difference = ₹ 24, CP =₹ 100 then Difference =₹ 30.6, $CP = 100 \times \frac{30.6}{24}$ then $=\frac{3060}{24}=127.5$ To get 10% profit, SP = $127.5 \times \frac{110}{100} = ₹ 140.25$ **63.** (1) $12042 = P(1 + \frac{r}{100})^6$... (i) $8028 = P(1 + \frac{r}{100})^3$ $(8028)^2 = P^2 \left(1 + \frac{r}{100}\right)^6 \dots$ (ii) Dividing (ii) by (i) we get $P = \frac{8028 \times 8028}{12042}$

64. (4) Total production of C type cars in year 2013 & A in year 2014 = 36 + 48 = 84 thousand Total production of B in year 2016 & E type cars in 2015 = 56 + 35 = 91Required ratio = 84:91= 12 : 13 65. (3) Edge of the original cube $=(13824)^{\frac{1}{3}}=24$ Surface area of the original cube $= 6 (24)^2$ $= 6 \times 576$ = 3456Volume of one smaller cube edge of one smaller cube $=(1728)^{\frac{1}{3}}=12$ Total surface area of three smaller $= 3 \times 6 \times (12)^2$ $= 18 \times 144$ = 2592Required ratio = 3456: 2592 = 4: 3**66.** (4) $x^4 + x^{-4} = 194$ $x^4 + \frac{1}{x^4} = 194$ $x^2 + \frac{1}{x^2} = \sqrt{194 + 2} = 14$ $x + \frac{1}{x} = \sqrt{x^2 + \frac{1}{x^2} + 2}$ $x + \frac{1}{x} = \sqrt{14 + 2} = 4$ $x^2 - 4x + 1 = 0$ $x = \frac{4 \pm \sqrt{16 - 4}}{2}$ $= 2 \pm \sqrt{3}$ $(x-2)^2 = 3$ $\sin \theta = \frac{P^2 - 1}{P^2 + 1}$ **67.** (2) $\cos^2 \theta = 1 - \sin^2 \theta$ $\cos^2 \theta = 1 - \frac{(P^2 - 1)^2}{(P^2 + 1)^2}$ $\cos^2 \theta = 1 - \frac{P^4 - 2P^2 + 1}{P^4 + 2P^2 + 1}$ $\cos^2 \theta = \frac{4P^2}{(P^2 + 1)^2}$

$$\cos \theta = \frac{2P}{P^2 + 1}$$
68. (1) $\frac{(5\sqrt{5}x^3 - 81\sqrt{3}y^3)}{(\sqrt{5}x - 3\sqrt{3}y)}$

$$= Ax^2 + By^2 + Cxy$$
 $\frac{(\sqrt{5}x - 3\sqrt{3}y)(5x^2 + 3\sqrt{15}xy + 27y^2)}{\sqrt{5}x - 3\sqrt{3}y}$

$$= Ax^2 + 5x^2 + 3\sqrt{15}xy + 27y^2$$

$$= Ax^2 + By^2 + Cxy$$

$$A = 5, B = 27, C = 3\sqrt{15}$$

$$6A + B - \sqrt{15}C = 30 + 27 - 45$$

$$= 12$$
69. (1) Batic of efficiencies A:B:C =

69. (1) Ratio of efficiencies, A:B:C =2:5:3

$$(A + B + C) : (B + C) = 10 : 8 = 5 : 4$$
$$\frac{M_1 \times D_1}{W_1} = \frac{M_2 \times D_2}{W_2}$$
$$\frac{5 \times 27}{1} = \frac{4 \times D_2}{\frac{4}{9}}$$
$$D_2 = \frac{5 \times 27 \times 4}{4 \times 9} = 15$$

А

70. (2)

= AB + BC + AC

cm,

= AR + BR + BP + PC + AQ + QC
= 4.5 + 6 + 6 + 5.5 + 5.5 + 4.5
= 32 cm
72. (2)
Q
Let OS = x, then
OR² - OS² = PR² - PS²

$$10^2 - x^2 = 12^2 - (10 - x)^2$$

$$10^{2} - x^{2} = 12^{2} - (10 - x)^{2}$$

$$100 - x^{2} = 144 - 100 - x^{2} + 20x$$

$$20x = 56$$

$$x = 2.8 \text{ cm}$$

(1) A second s

73. (1) Average production of D type cars during the years 2012 to 2016 51 + 24 + 30 + 46 + 54

$$= \frac{205}{5} = 41$$

In 2014 and 2015 production of B type cars are less than the average.

74. (2)
$$120(1 - \frac{x}{100}) = 40(1 + \frac{x}{100})$$

 $3 - \frac{3x}{100} = 1 + \frac{x}{100}$
 $\frac{4x}{100} = 2$
 $x = 50$
 $x^{0/0}$ of $210 = 210 \times \frac{50}{100}$
 $= 105$
 $(x + 20)^{1/0}$ of $180 = 180 \times \frac{70}{100}$
 $= 126$
Required Percentage
 $= \frac{126 - 105}{126} \times 100$
 $= 16\frac{2}{3}^{0/0}$

75. (4) Two successive discount equivalents to

$$= -x - x + \frac{x^2}{100}$$
$$= -2x + \frac{x^2}{100}$$

Total rate of discount

$$= 259.20 \times \frac{100}{720} \\= 36\%$$

Now,

...

$$-2x + \frac{x^2}{100} = -36$$
$$x^2 - 200x + 3600 = 0$$
$$x = 20$$

PART-IV (ENGLISH LANGUAGE)

76. (1) Correct order of the sentences \rightarrow DCBA

77. (1) Replace 'because' in place of 'in case that' for correct meaning to the sentence.

78. (3) The correct spelling \rightarrow Calendar.

79. (2) The idiom 'at daggers drawn' means '(of two people) be bitterly hostile towards each other'.

• They have been at daggers drawn for weeks over tactics.

80. (4) Meaning of the word 'Dwarf' \rightarrow A person who is of unusually or abnormally small stature because of a medical condition; a person affected by dwarfism.

81. (2) For the improvement of a sentence, use 'will fine you' in place of 'has fined you'.

82. (4) Correct filler for the blank \rightarrow Reputation means 'the beliefs or opinions that are generally held about someone or something'.

83. (4) Opposite of Scarce is:

Plentiful: existing in or yielding great quantities; abundant.

84. (2) Appropriate option for the blank \rightarrow those.

85. (1) A determiner is required to fill in the blank.

An indefinite article 'a' is required because it precedes a word that begins with a consonant sound.

86. (1) The blank needs an adverb, not an adjective. Between 'alike' and 'similarly', 'alike' is the correct choice.

87. (2) 'Mistakes' is the appropriate word to fill in the blank.

88. (1) 'Particular' meaning 'especially great or intense' is the appropriate word for the blank.

89. (1) Chronic/Persistent: (of an illness) persisting for a long time or constantly recurring, continuing to exist or occur over a prolonged period.

90. (2) 'Costumes' meaning 'a set of clothes worn by an actor or performer for a particular role' is the appropriate word for the blank.

91. (2) Correct order of the four jumbled sentences is \rightarrow BADC.

92. (1) Correct spelling of 'Exploite' is 'Exploit' and it means 'make full use of and derive benefit from a resource'.

93. (3) Antonym of Expansion is: Compression: the reduction in volume.

94. (4) Truant: a pupil who stays away from school without leave or explanation.

95. (1) Correct active form of the given sentence \rightarrow The guards were thoroughly checking every passing vehicle.

96. (3) Correct passive form of the given sentence is \rightarrow

Medicines should not be bought without the doctor's prescription.

97. (1) The idiom 'to play ducks and drakes' means 'to behave recklessly; to idly squander one's wealth'.

Sentence \rightarrow She played ducks and drakes with her property.

98. (1) The use of conjunction 'although' is incorrect in the sentence. To correct the sentence use 'as' in place of 'although'.

99. (1) Coerce/Pressurise: persuade (an unwilling person) to do something by using force or threats; attempt to persuade (someone) into doing something.

100. (4) The phrase 'for a long time' indicates the duration of some activity which started in past and still continues. Use present/past perfect continuous tense to represent such actions.

3

SSC – CGL

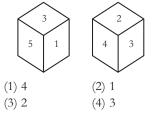
Combined Graduate Level (Tier-I) Examination Solved Paper – 04 June, 2019 (II)

PART-I

(GENERAL INTELLIGENCE & REASONING)

- 10 years ago, the age of a father was more than 3¹/₂ the age of his son and after 10 years from now, the age of the father will be more than 2¹/₄ the age of his son. Now, how much is the total sum of the age of father and son?
 (1) 120 years
 (2) 115 years

 - (3) 110 years (4) 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?



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)

(1) (4, 12, 22) (2) (14, 12, 8) (3) (12, 22, 46) (4) (18, 6, 14)

4. Three from the following four numbers are somehow identical and one number is uneven. Select that uneven number.

(1) 12 (2) 14 (3) 30 (4) 56

5. The way, in which the verb 'deed' is related to 'reaction', is related to 'inciting'.

(1) Foresight
 (2) Feedback
 (3) Response
 (4) Welcome

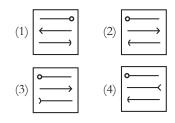
- 6. Select the option that is related to the third letter group in the same way as the second letter group is related to the first letter group. BECD : YUXW : DGEF : ?

 (1) WUTV
 (2) WTVU
 (3) VRTS
 (4) 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
 - Heat : Sun
 - (1) House : Terrace
 - (2) Vitamin : Fruit
 - (3) Environment : Humidity
 - (4) Ride : Car
- 8. If BACK is coded as 11312 and CAKE as 51113. So how will MADE be coded?
 (1) 13145
 (2) 54113
 (3) 51413
 (4) 31145
- 9. To correct the equation given below, which two symbols, should be mutated?
 - $18 + 6 6 \div 3 \times 6 = 6$
 - $(1) + and \div$ $(2) + and \times$
 - $(3) and \div \qquad (4) + and -$
- 10. Three words out of the following four words are somehow similar and one word is uneven. Choose the odd word.(1) Tendency (2) Endurance

(3) Stability (4) Persistence

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

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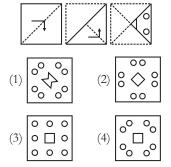
12. In the series given below, what number will replace the question mark (?)?

2, 5, 11, 23, 44, ? (1) 77

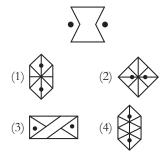
1)	77	(2) 63
2		(1) (1)

(3) 51 (4)	66
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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.