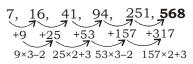
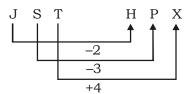
SSC CGL 2024 | SPECIAL MOCK TEST - 19 : SOLUTIONS

A-GENERAL INTELLIGENCE & REASONING

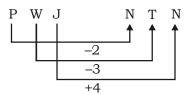
- 1. (c) As, $(13-2)^3 = 1331$ Similarly, $(17 - 2)^3 = 3375$
- 2. (a)



3. (a) As,



Similarly,



4. (b) $16 - 18 \times 216 \div 432 + 40 = 20$ Interchanging × and ÷, $16 - 18 \div 216 \times 432 + 40 = 20$

$$16 - \frac{18}{216} \times 432 + 40 = 20$$

$$16 - 36 + 40 = 20$$

$$56 - 36 = 2$$

 $20 = 20$

5. (c) (45 D 9) B 5 A 8 B (7 A 3 C 6) C (28 D (4 D 4))

Putting the signs,

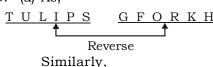
$$(45 \div 9) \times 5 + 8 \times (7 + 3 - 6) - (28 \div (4 \div 4))$$

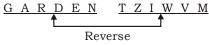
 $(28 \div (4 \div 4))$

$$= 5 \times 5 + 8 \times 4 - 28$$

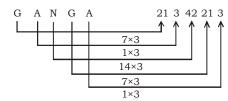
$$= 25 + 32 - 28$$

- = 57 28 = 29
- 6. (a)
- 7. (a) 1. Serenity, 4. Sericulture, 5. Serotonin, 2. Serpent, 3. Serviceable
- 8. (d)
- 9. (d) As,

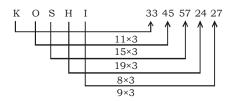




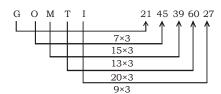
- 10. (d)
- 11. (b) As,



And,



Similarly,



- 12. (c)
- 13. (c) From 1st and 3rd dice we have,

$$2 < \frac{3-1}{5-6}$$

14. (c) In the first column,

$$13 \times (16 \div 4) = 52$$

In the second column,

 $15 \times (24 \div 4) = 90$ In the first column,

$$23 \times (36 \div 4) =$$
207

15. (d) Let two numbers be x and y. ATQ,

$$x + y = 6$$
(i)

$$x - y = 5$$
(ii)

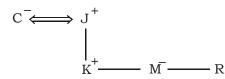
$$x = \frac{11}{2}$$

Putting the value of x in equation (i),

$$\frac{11}{2} + y = 6$$

$$y = 6 - \frac{11}{2} = \frac{1}{2}$$

- \ Required ratio = $\frac{11}{2} : \frac{1}{2} = 11 : 1$
- 16. (c)



Hence, J is the father of R.

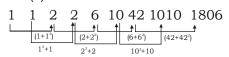
17. (b)

19. (c)



(ready) she

Hence, 'you' is coded as 5. 20. (c)



21. (b) Spatulas Peelers Funnels

> I. False II. True Hence, only conclusion II follows.

22. (b)

23. (b)^E $\frac{}{\text{Reverse}}$

24. (c) $C \xrightarrow{-3} Z \xrightarrow{-3} W \xrightarrow{-3} T \xrightarrow{-3} \mathbf{Q}$

 $A \xrightarrow{+4} E \xrightarrow{+4} I \xrightarrow{+4} M \xrightarrow{+4} \mathbf{0}$

 $L \xrightarrow{-5} G^{-5} B \xrightarrow{-5} W^{-5} R$

 $I \xrightarrow{+6} O^{+6} U \xrightarrow{+6} A \xrightarrow{+6} G$

B-GENERAL AWARENESS

- 26. (c)
- 27. (d) It was founded by Mahatma Gandhi in the year 1932. It was established in Delhi. It is also known as All India Anti-Untouchability League. The main objective of the association was to combat untouchability./इसकी स्थापना महात्मा गांधी ने वर्ष 1932 में की थी। इसकी स्थापना दिल्ली में हुई थी। इसे अखिल भारतीय अस्पृश्यता विरोधी लीग के नाम से भी जाना जाता है। संघ का मुख्य उद्देश्य अस्पृष्यता का मुकाबला करना था।
- 28. (b) The term was coined by Professor Rajkrishna in the year 1978. During this period the average GDP growth was around 3.5% while the per meagre 1.3%./यह शब्द प्रोफेसर राजकृष्ण द्वारा वर्ष 1978 में गढा गया था। इस अवधि के दौरान सकल घरेलु उत्पाद की औसत वृद्धि लगभग 3.5% थी जबकि प्रतिव्यक्ति आय में 1.3% की मामूली वद्धि हुई।
- 29. (c) Aurangzeb did not like music, so in 1668 he banned all forms of music or dance in his kingdom. Aurangzeb believed that music and dance were against the Islamic teachings he followed./औरंगजेब को संगीत पसंद नहीं था, इसलिए 1668 में उसने अपने राज्य में सभी प्रकार के संगीत या नृत्य पर प्रतिबंध लगा दिया। औरंगजेब का मानना था कि संगीत और नृत्य इस्लामी शिक्षा के खिलाफ है, जिसका उसने पालन किया।
- 30. (a)
- 31. (c) For a wave, the wavelength divided by the time period equals the wave velocity./एक तरंग के लिए, तरंगदैर्ध्य को समय अवधि से विभाजित करके तरंग वेग के बराबर होता है।
- 32. (a) It was established in 1957 as Asia's highest honour and premier award. This award is given to individuals who display exceptional spirit of service to the people of Asia, regardless their

background./इसे वर्ष 1957 में 39. (c) एशिया के सर्वोच्च सम्मान तथा प्रमुख परस्कार के रूप में स्थापित किया गया। यह पुरस्कार उन व्यक्तियों को प्रदान किया जाता है जो अपनी पृष्ठभूमि की परवाह किये बिना एशिया के लोगों की सेवा में असाधारण भावना प्रदर्शित करते

- 33. (b)
- 34. (d)
- 35. (a) Black gram crop is grown to increase the fertility of the land. Sunai, Dhaicha, Lobia, Moong, Cluster etc. crops are suitable for this method./भूमि की उर्वरता बढाने के लिए उडद की फसल उगायी जाती है। सनई, ढैचा, लोबिया, मुंग, ग्वार आदि फसलें इस विधि के लिए उपयुक्त होती हैं।
- capita income grew at a 36. (a) If we add impurities to a solution, the boiling point of the solution increases. This happens because the presence of impurities reduces the number of water molecules available to evaporate during boiling./यदि हम किसी घोल में अशद्भियाँ मिलाते हैं तो घोल का क्वथनांक बढ जाता है। ऐसा इसलिए होता है क्योंकि अशुद्धियों के उपस्थिति से उबलने के दौरान वाष्पीकृत होने के लिए उपलब्ध पानी के अणुओं की संख्या कम हो जाती
 - 37. (c)
 - 38. (d) If the budget is not passed by the Lok Sabha, the Prime Minister and his cabinet will have to resign. Similarly, the interim budget will also be presented in both the houses by the Finance Minister on February 1, put to vote and then sent for the President's approval./यदि बजट लोकसभा द्वारा पारित नहीं होता है, तो प्रधानमंत्री और उनके मंत्रिमंडल को इस्तीफा देना होगा। इसी तरह, अंतरिम बजट भी । फरवरी को वित्त मंत्री द्वारा दोनों सदनों में पेश किया जाएगा. मतदान के लिए रखा जाएगा और फिर राष्ट्रपति की मंजरी के लिए 50. (b) भेंजा जाएगा।

- 40. (b) It is headed by the CJI and comprises four other seniormost judges of the court. The collegium system was adopted in 1993./इसकी अध्यक्षता CJI करते हैं और इसमें अदालत के चार अन्य वरिष्ठतम न्यायाधीश शामिल होते हैं। कोलेजियम व्यवस्था सन 1993 में अपनाया गया था।
- 41. (a)
- 42. (a)
- 43. (d)
- 44. (c) Guru Nanak is the founder of Sikhism. Guru Nanak was born on 15 April 1469 in Rai Bhoi Di Talwandi (present Nankana Sahib) in Pakistan./ गुरूनानक सिख धर्म के संस्थापक हैं। गुरू नानक का जन्म 15 अप्रैल 1469 को पाकिस्तान के राई भोई दी तलवंडी (वर्तमान ननकाना साहिब) में हुआ था।
- 45. (d) Mahendragiri is the highest peak of the Eastern Ghats. Kanchenjunga is the third highest mountain in the world, located on the border of Sikkim and Nepal. Anaimudi is the second highest peak in South India after Doddabetta. महेंद्रगिरि पूर्वी घाट की सबसे ऊंची चोटी
- कंचनजंगा विश्व का तीसरा सबसे ऊँचा पहाड है, जो सिक्किम और नेपाल की सीमा पर स्थित है।
- अनाइमुडी दक्षिण भारत में दोडावेट्टा के बाद दुसरी सबसे ऊँची चोटी है।
- 46. (c)
- 47. (a)
- 48. (b)
- 49. (d) Abdul Karim Khan and Abdul Wahid Khan were the founders of the Kirana Gharana of Indian classical music./अब्दुल करीम खान और अब्दुल वाहिद खान भारतीय शास्त्रीय संगीत के किराना घराने के संस्थापक थे।

C - QUANTITATIVE APTITUDE

51. (a) $55 = 5 \times 11$

Divisibility rule of 5: If the last digit of a number is either 0 or 5, the number is divisible by 5.

Divisibility rule of 11: The difference of the sum of alternate digits of a number is either 0 or divisible by 11. 185625 = (1 + 5 + 2) - (8 + 6 + 5)= (8) - (19)= -11 which is divisible by 11.

52. (b) L.C.M = 1800Let the numbers be 3x, 4x 60. (d) $a^2 + b^2 + c^2 - ab - bc - ca$ and 5x

L.C.M (3x, 4x, 5x) = 60xATQ, $60x = 1800 \Rightarrow x = 30$

 \therefore Second number = 4x = 120

53. (b) As the sum doubles itself, S.I = 2P - P = P

ATQ, S.I =
$$\frac{P \times R \times T}{100}$$

$$\Rightarrow P = \frac{P \times 8 \times T}{100}$$

 \Rightarrow T = 12.5 years.

54. (c) S.I =
$$\frac{P \times R \times T}{100}$$
 = 0.16P

Compound interest

$$= P \left(1 + \frac{8}{100}\right)^2 - P$$

= 1.1664 P - P = 0.1664 PATO.

0.1664 P - 0.16 P = 16.80

$$\Rightarrow P = \frac{16.80}{0.0064} = 2625$$

55. (a)

56. (b) MP = ₹ 2200

SP = 2200 ×
$$\frac{92}{100}$$
 = ₹2024

57. (d) P : Q =
$$4_{\times 10}$$
 : $5_{\times 10}$

$$10\% \begin{pmatrix} 40:50 \\ 44:60 \end{pmatrix} 20\%$$

$$16 - 480$$

$$10 - 30 \times 10 = 300$$

58. (b)
$$\Rightarrow x + 3 (y + x - 2) - (x + y)$$

 $\Rightarrow x + 3y + 3x - 6 - x - y$
 $\Rightarrow 3x + 2y - 6$

59. (a)
$$k + \frac{1}{k} = 3$$

Cubing both sides -

$$k^3 + \frac{1}{k^3} = 27 - 3 \times 3 = 18$$

b0. (d)
$$a^2 + b^2 + c^2 - ab - bc - ca$$

= $\frac{1}{2} \left[(a - b)^2 + (b - c)^2 + (c - a)^2 \right]$

$$= \frac{1}{2} \left[(101-102)^2 + (102-103)^2 + (103-101)^2 \right]$$

$$= \frac{1}{2} \left[1 + 1 + 2^2 \right] = \frac{1}{2} \times 6 = 3$$

61. (a)
$$\frac{2x}{5} + \frac{3x}{10} - \frac{3x}{5} = 479$$

$$\Rightarrow \frac{4x}{10} + \frac{3x}{10} - \frac{6x}{10} = 479$$

$$\Rightarrow \frac{7x}{10} - \frac{6x}{10} = 479$$

$$\Rightarrow$$
 x = 4790

62. (c) By the help of options, let the number be 9. According to the question

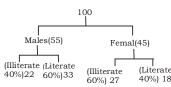
$$\Rightarrow 9 + \left(9 \times \frac{1}{3}\right) = 12$$

63. (c) Pass marks = 390 + 65= 455

$$35\% \equiv 455$$

$$\Rightarrow 100\% \equiv \frac{455}{35} \times 100 = 1300$$

64. (a) Total voters are 100



Required percentage

$$= \left[\frac{(33-27)}{27}\right] \times 100 = 22 \frac{2}{9}\%$$

65. (b) Speed = $\frac{\text{Distance}}{\text{time}}$

ATQ,
$$\frac{D}{30} - \frac{D}{60} = 1$$

$$\Rightarrow \frac{2D-D}{60} = 1$$

$$\Rightarrow$$
 D = 60 km

66. (c)
$$\tan A = \frac{2.4}{0.7}$$

According to the pythogoras theorem,

$$P^2 + B^2 = H^2$$

$$(2.4)^2 + (0.7)^2 = H^2$$

$$H^2 = 6.25$$

$$H = 2.5$$

Now, $50 \cos A + 24 \cot A$

$$\Rightarrow \left[50 \times \left(\frac{0.7}{2.5}\right) + 24 \times \left(\frac{0.7}{2.4}\right)\right] = 21$$

67. (a)
$$\frac{\cos^4\theta - \sin^4\theta}{\sin^2\theta}$$

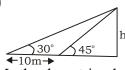
$$\Rightarrow \frac{(\cos^2\theta - \sin^2\theta)(\cos^2\theta + \sin^2\theta)}{\sin^2\theta}$$

$$\Rightarrow \frac{(\cos^2\theta - \sin^2\theta)(1)}{\sin^2\theta}$$

$$\Rightarrow \frac{c \circ s^2 \theta}{s i n^2 \theta} - 1$$

$$\Rightarrow$$
 cot $^{2}\theta$ -1

68. (d)



In the above triangle, the angles are 90°, 60°, 30°.

The length of the shadow is $\sqrt{3} \times h$

ATQ,
$$h \sqrt{3} = h + 10$$

$$\Rightarrow$$
 h = $\frac{10}{\sqrt{3}-1}$ = $5(\sqrt{3}+1)$

69. (c) According to the question, $\angle ROS + \angle RPS = 180^{\circ}$

$$\angle ROS + \angle RPS = 180^{\circ}$$

 $\angle ROS + 25^{\circ} = 180^{\circ}$

$$\angle ROS = 180^{\circ} - 25^{\circ} = 155^{\circ}$$

70. (a) From the properties of the circle,

$$AL \times LB = CL \times LD$$

$$8 \times 3 = x \times 6 \Rightarrow x = 4 \text{ cm}$$

71. (b)



According to the question, $2x = 76^{\circ}$ $x = 38^{\circ}$

Now, in triangle CBD, $\angle BCD + \angle CDB + \angle CBD = 180^{\circ}$ $\angle BCD + 76^{\circ} + \angle CBD = 180^{\circ}$ \angle CBD = $180^{\circ} - 76^{\circ} - 38^{\circ}$ ∠CBD = 66°

- 72. (a) Sum of interior angles $= (n - 2) \times 180^{\circ}$ ATQ, $2700 = (n-2) \times 180$ \Rightarrow $(n-2) = 15 \Rightarrow n = 17$ Number of diagonals
 - $= \frac{n(n-3)}{2} = \frac{17(17-3)}{2} = \frac{17 \times 14}{2}$
- 73. (d) Kite shape = Shape of Rhom-Area of Rhombus

$$= \frac{1}{2} (d_1 \times d_2) = \frac{1}{2} \times 22 \times 6$$

= 66 cm²

- 74. (b) Circumference of the base 79. (c) Quintessence (सबसे अच्छा of the cylinder = 28π ATO, $2 \pi r = 28 \pi$
 - \Rightarrow r = 14 cm C.S.A of cylinder = $2 \pi rh$ $= 2 \times 14 \times 17 \times \pi$ $=476 \pi \text{ cm}^2$
- 75. (c) ${}^{2}_{A+B} = 20 \xrightarrow{3}_{60}$

B's efficiency = 1 unit/day Total work is completed in 60 days.

D-ENGLISH COMPREHENSION

- 76. (b) **Their** (उनका) is a possessive pronoun is used to show ownership. The sentence refers to something belonging to them.
- 77. (a) **Unkempt** (बिखरा हुआ) means messy and untidy, especially referring to a person's appearance.

up and doing (सक्रिय या काम में लगे हुए) means actively engaged.

proud and useless (घमंडी और बेकार) doesn't relate to being untidy.

violent and rigorous (हिंसक और कठोर) refers to aggression.

78. (c) **Contagion** (संक्रमण) means the transmission of a disease through contact.

Other options:

Fatal (जानलेवा) means causing death.

Infected (संक्रमित) describes someone who

has already caught a disease.

Malleable (लचीला) means easily shaped or influenced.

उदाहरण) means the perfect example or embodiment of something.

Other options:

insignificant appearance (महत्वहीन दिखावट) is the opposite of what "quintessence" means.

apparent display (साफ

दिखना) implies something visible but not necessarily perfect.

volatile aspect (अस्थिर चीज) means an unpredictable or unstable characteristic.

80. (d) Put forth (सामने रखना) means to express or propose something. While, conceal (रोकना), means to hide or keep something secret.

Other options:

Stop (रोकना) means to prevent, opposite of "put

Against (विरूद्ध) is unrelated to the meaning.

Apply (लागू करना) means to put something into use

- 81. (d) Have a bee in your bonnet (किसी बात को लेकर बहुत ज्यादा परेशान या जुनुनी होना) means being obsessed with an idea or constantly worrying about something.
- 82. (d) The phrase "put on" should be "put off."

Put on (पहनना) is incorrect here. The correct term should be **put off** (टालना), which means to postpone.

- 83. (c) The correct spelling is quarantine (पृथक करना), which refers to isolating someone to prevent the spread of disease.
- 84. (a) **Judas kiss** (धोखा देने वाली दोस्ती या विश्वासघात) refers to an act that appears friendly but is actually deceitful.
- 85. (d) Palpable (स्पष्ट रूप से महसूस होने वाला) means something that can be easily perceived or detected.

Other options:

Indistinguishable (अलग न किया जा सकने वाला) means not able to be identified separately.

Imperceptible (अगम्य) means not easily noticed.

Insensible (बेहोश या असंवेदनशील) means without awareness or feeling.

- 86. (a) As the sentence uses the present tense ("can perform"), it should be "he is old now."
- 87. (d) The correct sentence should be: "The Prime Minister addressed (संबोधित करना) the nation asking for the address (पता) of the traitors."
- 88. (d) The correct phrase should 92. (a) The correct spelling is be "on the basis of" instead of "on the section".

"on the basis of" means that the selection was made according to a certain criterion or standard.

89. (a) **Verbatim** (ज्यों का त्यों) means using exactly the same words as originally stated.

Other options:

Duplication (नकल करना) means copying.

Repetition (दोहराव) means saying something again.

Recurrence (पुनरावृत्ति) means something happening repeatedly.

90. (d) Don't drop the catch.

"An imperative sentence does not normally have a subject. It is used to express a command or request.

"Active Voice Structure: Subject (implied "you") + should/should not + verb (V1)"In instructional sentences, the subject is often understood as "you," and we give direct commands using the imperative mood.

91. (c) Active Voice Structure:

Why + do/does + Subject + base verb (V₁) + Object?

Why + do + you (subject) + spend (V_1) + so much money (object)?

Passive Voice Structure:

Why + is/are + Object + Past Participle (V₂) + by + Subject?

- Why + is + so much money (object) + spent (V_3) + by you (subject)?
- Aesthetic (सौंदर्य से संबंधित).
- 93. (a) **Vicinity (** आसपास का क्षेत्र) means a nearby area. While **Remote** (दूर का), means far away. Other options:

Natural (स्वाभाविक) is unrelated.

Adjacent (सटा हुआ) means next to.

Proximity (निकटता) means closeness

94. (a) Roy came to the city last week.

> The correct structure for past events uses the simple past tense (v₂).

Other options:

Roy has come to the city last week: "has come" should not be used with a specific time like "last week."

Roy come to the city last week: "come" should be "came."

Roy had come to the city last week: "had come" is used for past perfect.

95. (d) "anything with chemicals" means any food item that contains chemicals, maintains the negative construction properly:

> Children should not be given (नहीं देना चाहिए) anv food that contains chemicals.

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