SET – 35	ANSWERS WITH	EXPLANA	TION	Exam hel	ld on : 21/	/03/20	023    02:	30 PM	
ENGLISH LANGUAGE	AND COMPREHENSION								
1. (3) 2 10. (1) 1 19. (2) 2	. (2)     3. (2)       1. (1)     12. (4)       0. (4)     21. (4)	4. (4) 13. (2) 22. (1)	5. (4) 14. (2) 23. (3)	6. (4) 15.(1) 24.(1)	7. (3) 16. (2) 25. (3)	8. (3 17.(3	3) 9. (1) 3) 18. (1)		
EXPLANATION:	(+) 21. (+)	<i>44</i> . (1)	20. (0)	27.(1)	20. (0)				
4. (4) Replac	ce 'Near' with 'Nearl	y'. We need	an Adverb	here.					
<ol> <li>(4) We nee</li> <li>(3) In ima</li> <li>(2) 'Don't</li> <li>(1) 'Fluffy</li> <li>(2) Replace</li> </ol>	ed an Adverb (seven aginary situation, 'w /Doesn't +V <sub>1</sub> ' is the '' is incorrectly spelf ce 'meet' with 'meet	rely) to mod vere' is used correct stru t here, mean ing'. 'Look fo	ify the verb with all th acture. ns- being li prward to'	o (affected) ae Subjects ght and so is followed	s. oft or airy. by V <sub>-ing</sub> form	m of the	e verb.	N LINDI	
Bigot	A person with very	strong un	reasonable	heliefs or	oninions ar	hd	<b>साटमातात्व</b> । दस्मों के विचामें	के पति	
Digot	A person with very strong, unreasonable beliefs or opinions and							पूसरा के पियारा के प्रात	
Circuitous	(Used about a journey or route) long and not direct							जताहज्जु, २०५५ (यात्रा या मार्ग) लंबा तथा घुमावदार; चक्करदार	
Clandestine	Secret						गुप्त		
Commute	To travel a long dis	tance from	home to w	ork every o	lay		प्रतिदिन निवास स्थान से		
								कार्य-स्थान तक यात्रा करना	
Compensatory	Of a payment inter loss, suffering, or i	ided to reco njury	mpense so	meone wh	o has exper	rienced	मुआवजा संबंधित		
Corrective	Intended to make s	something r	ight that is	wrong			सुधारात्मक		
Deviant	Different from what	t most peop	le consider	to be norm	nal and acc	eptable	असामान्य		
Devious	Clever but not honest or direct						चालबाज, छली		
Fad	Apractice or interes Craze, Sensation	st followed f	for a time v	vith exagge	erated zeal,		सनक		
Gloom	Feeling of being sa	d and witho	ut hope				निराशापूर्ण उदासी		
Iridescent	Showing many bright colours that seem to change in different lights					रंगबिरंगा, सतरंगा, रंगदीप्ति			
Juggler	A person who juggl	es to entert	ain people				करतब दिखाने वा	ला	
Monochromatic	Containing or using only one colour.					एकरंगा			
Nacreous	Exhibiting lustrous	s or rainbow	<i>–</i> like colou	ırs.			चमकदार या इंद्रध का प्रदर्शन	ग्नुष जैसे रंगों	
Orphan	A child whose pare	nts are dea	d				अनाथ		
Outspoken	Saying exactly what you think or feel although you may shock or upset other people					मुँह-फट, स्पष्ट वक्ता			
Pale	Deficient in colour	or intensity	of colour				फीका		
Posthumous	Given or happening after somebody has died					मरणोपरांत, निधनोत्तर			
Pseudonym	A fictitious name					उपनाम			
Restorative	making you feel better, healthier and stronger						स्वास्थ्यवर्द्धक, बलवर्द्धक		
Serpentine	of or resembling a serpent (as in form or movement)						टेढ़ा, सॉॅंप जैसे आकार का		
Sluggish	slow, Lazy						सुस्त		

SSC CHSL TIER - I 2022 422 2

## 🛛 GENERAL INTELLIGENCE & REASONING 🛚

1. (4) (A≬T≬H) So, no conclusion follows. 2. (2) 56885-11377  $\Rightarrow \frac{56885}{5}$ =11377  $74235 - 14847 \Rightarrow \frac{74235}{5} = 14847$  $82695 - 16539 \Rightarrow \frac{82695}{5} = 16539$ But,  $38515 -7701 \Rightarrow \frac{38515}{5} =$ 7703 ≠ 7701 3. (2) T <u>-7</u> M <u>-7</u> F <u>-7</u> Y <u>-7</u> R R <u>-5</u> M <u>-5</u> H <u>-5</u> C <u>-5</u> X A <u>-9</u> R <u>-9</u> I <u>-9</u> Z <u>-9</u> Q P <u>-11</u> E <u>-11</u> T <u>-11</u> I <u>-11</u> **X** 4. (2) 71 108 145 **182** 219 34 (1)Hexagon has six sides. 5. Similarly, a Rectangle has four sides. 6. (4) Rinku $\rightarrow$ Mother (lady) Son**∢→**Sister : Sister's mother is wife of Rinku. 7. (1) **K L I O** 11 12 9 15 K S P T 18 19 16 20 8. (2) 9. (3) 10.(1) P M  $R^{+2}$ Similarly, B C  $\begin{array}{c} +2 \\ +2 \\ D \end{array} \xrightarrow{+2} E$ 11. (4)  $10 \times 8 \div 6 - 2 + 4$ Interchanging ÷ and –, 4 and 8- $10 \times 4 - 6 \div 2 + 8$  $= 10 \times 4 - 3 + 8$ = 40 - 3 + 8 = 4512. (2)  $\frac{\text{ONLINE}}{6 \text{ letters}} + \frac{\text{THEIR}}{5 \text{ letters}} = 11$ Sum of letters = 6 + 5 = 11 $\frac{\text{FREE}}{4 \text{ letters}} + \frac{\text{NEW}}{3 \text{ letters}} = 7$ Sum of letters = 4 + 3 = 7

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Similarly, HELP STUDENTS =128 letters 4 letters Sum of letters= 4 + 8 = 1213. (1) 182, 79,  $378 \Rightarrow$ 14. (2) 11 Cycles are not pedals. 15.(2) P R I N T Similarly, ŢŖĮÇ 16. (4) 9 -810  $\Rightarrow$  (9)<sup>2</sup> = 81 × (9 + 1) = 810  $11 - 1452 \Rightarrow (11)^2 = 121 \times (11 + 1)$ = 1452  $7 - 392 \implies (7)^2 = 49 \times (7+1)$ = 392But,  $13 - 2368 \implies (13)^2 = 169 \times (13 + 1)$ = 2366 ≠ 2368 17.(2) 13@2#5=10,43#9@16=50  $\Rightarrow$  13 + 2 - 5  $\Rightarrow$  43 – 9 + 16  $\Rightarrow 15 - 5$  $\Rightarrow 59 - 9$  $\Rightarrow 10$  $\Rightarrow 50$ Similarly, 8@6#3 = 8 + 6 - 3 = 11 18.(1)19. (3) Lucknow is the capital of UP. Similarly, Kolkata is the capital of West Bengal. 20. (2) Other than Karachi, every city is the capital of respective countries. 21. (4) 22. (3) 4. Layout 2. League 1. Lean 3. Lecture 5. Leftist  $23.(3)319:552 \implies 319+233 =$ 552  $146:379 \Rightarrow 146 + 233 = 379$ Similarly, ?:  $774 \Rightarrow 774 - 233 = 541$ 24.(2)25. (2) There are 26 quadrilaterals. ANSWER KEY 1. (4) 2. (2) 3. (2) 4. (2) 5. (1) 6. (4) 7. (1) 8. (2) 9. (3) 10. (1) 11. (4) 12.(2) 13. (1) 14.(2) 15. (2)16. (4) 17. (2) 18. (1) 19. (3) 20. (2)

21. (4) 22. (3) 23. (3) 24. (2) 25. (2)

(423)

21 MARCH. 2023, 2:30 PM

SSC CHSL TIER - I 2022

QUANTITATIVE APTITUDE (3)  $\tan A = \frac{3}{7}$  Or,  $\cot A = \frac{7}{2}$ 1.  $\therefore$  CosecA =  $\sqrt{1 + \cot^2 A}$ Or, cosecA =  $\sqrt{1 + \frac{49}{9}}$  $\operatorname{cosecA} = \sqrt{\frac{58}{9}}$  $\operatorname{cosecA} = \frac{\sqrt{58}}{2}$ (1) Let, speed of man = S m/s2.  $\therefore$  Speed of train = 8S m/s ATQ, 1800  $\frac{1000}{(8S+S)} = 10$ Or,  $\frac{1800}{90} = S$ Or, S = 20  $\therefore$  Speed of train = 20 × 8 ×  $\frac{18}{5}$ km/h = 576 km/h(4) Distance of chord RS from 3. centre = 20 cmHalf of length of chord =  $\frac{30}{2}$  cm = 15 cm : Radius =  $\sqrt{(15)^2 + (20)^2}$  cm = 25  $\therefore$  Diameter = (25 × 2) cm = 50 cm (3) Total sales of branches  $B_2$ ,  $B_4$ ,  $B_6$ , in year 2001 = 65 + 95 + 80 = 240 4.  $\therefore$  Average sales =  $\frac{240}{3}$  = 80 Total sales of branches B1, B3, B5 in year 2001 = 105 + 110 + 95 = 310 $\therefore$  Average sales =  $\frac{310}{2}$  $\therefore$  % of average sales by B<sub>2</sub>, B<sub>4</sub>,  $B_6$  to average sales by  $B_1$ ,  $B_3$ ,  $B_5$ .  $= \frac{80 \times 3}{310} \times 100$ = 77.41% (2)  $\frac{(17)^3 - (7)^3}{17^2 + 7^2 + 16} = 10$ 5. Or,  $\frac{(17-7)\left[(17)^2+(7)^2+(17\times7)\right]}{17^2+7^2+k}$ 

SET-35

Or, 10 (289 + 49 + 119) = 2890+490 + 10k k = 119  $(4) 4^2 - 3^2 + 6^2 - 5^2 + 8^2 - 7^2$ 6. +.....+92<sup>2</sup> - 91<sup>2</sup>  $= 7 + 11 + 15 + 19 + \dots + 183$  $I^{st}$  term (a) = 7 Difference (d) = 4Last term  $t_n = 183$ Number of  $\ddot{t}erms = n$  (say) We know Last term  $t_n = a + (n - 1) d$ Or, 183 = 7 + (n - 1) 4 Or, n = 45 ∴ Sum of nth term,  $S_n = [2a + (n - 1) d] \frac{n}{2}$  $[2 \times 7 + (45 - 1)4] \times \frac{45}{2}$ = 4275(1) Ratio of share of P and Q + 7.  $\dot{R} = 4:7 (4+7 = 11 \times 7)$ = 28 : 49 Ratio of share of Q and P + R = $2:5(2+5)=7\times 11$ = 22:55 $\therefore P:Q:R$ = 28 : 22 : 27  $\therefore$  Share of R =  $\frac{27}{77} \times 43120$  $= 27 \times 560 \Rightarrow 15120$ (2) Number of girls in school A 8. = 200 Number of girls in school F =100  $\therefore$  % of number of girls in A to number of girls in school F  $=\frac{200}{100} \times 100 = 200\%$ (1) Ratio of cost price and 9. marked price = 100 : 120↓-12 108  $\therefore$  Profit = 108 - 100 = 8 :. Profit % =  $\frac{8}{100} \times 100 = 8\%$ 10. (3) Let, the side of the converted cube = l cm Volume of cuboid =  $6^3 + 8^3 +$  $10^3 = 1728$ ATQ,  $l^3 = 1728$ Or,  $l^3 = (12)^3$ l = 12 $\therefore$  Side of converted cube = 12 cm 11. (2) Let, marks obtained by x = aMarks obtained by y = bSum of marks obtained by x and y = a + b.

 $\therefore$  Average of marks =  $\frac{a+b}{2}$ ATQ,  $\frac{a+b}{2} + 35 = \frac{85+b}{2}$ a + b + 70 = 85 + ba = 15  $\therefore$  Marks obtained by x is 15. 12. (2) The ratio of cost price and selling price of P and Q respectively = 100:130The ratio of cost price and selling price of  $\overline{Q}$  and R respectively = 130:156 $\therefore$  Ratio of cost price of P and R = 100 : 156= 25:3913. (2) Interest earned = 13200 -12000 = 1200Simple interest- $SI = 12000 \times \frac{R}{100} \times 2$  $R = \frac{1200 \times 100}{2400}$ R = 5For double interest  $SI = 12000 \times \frac{10}{100} \times 2$ SI = 2400: Amount = 12000 + 2400 = 1440014. (4)  $\frac{\tan\theta - \sec\theta + 1}{\tan\theta + \sec\theta - 1}$ If we consider  $\theta = 45^{\circ}$  $= \frac{1 - \sqrt{2} + 1}{1 + \sqrt{2} - 1} \Rightarrow \frac{2 - \sqrt{2}}{\sqrt{2}} = \sqrt{2} - 1$ Now, from options, we will get  $=\frac{\cos\theta}{1+\sin\theta}$ 15. (4) A =  $\frac{18 \div 9 \times 4}{15 \div 3 \times 5} \Rightarrow \frac{2 \times 4}{5 \times 5} \Rightarrow \frac{8}{25}$  $\mathbf{B} = \frac{18 \div 36 \times 3 + 5 \times 1 - 6}{18 \div 6 \times 20 - 3 \times 4 + 12}$  $B = \frac{\frac{3}{2} + 5 \times 1 - 6}{3 \times 20 - 3 \times 4 + 12}$  $B = \frac{\frac{3}{2} + 5 - 6}{60 - 12 + 12}$  $B = \frac{\frac{3+10-12}{2}}{\frac{2}{60}} \Rightarrow \frac{1}{120}$ Now. A + B $=\frac{8}{25}+\frac{1}{120} \Rightarrow \frac{(8\times 24)+25}{600}$ 

(424)

 $=\frac{197}{600}$ 16. (3) Ratio income, of expenditure and savings  $= 100 : 50 : 50 \\ \downarrow \qquad \downarrow \qquad \downarrow$ 110 55 55  $\therefore$  Increased savings = 55 - 50  $\therefore \text{ Increased } \% = \frac{5}{50} \times 100 = 10\%$ 17. (1) We know, for two identical circles intersect each other such that each passes through the centre of the other, Length of chord =  $\sqrt{3}$  × radius Or, Radius = 16 ∴ Radius of each circle 16 cm. 18. (4) A = 10 $B = 20 \xrightarrow{60} 3$  $C = 30 \xrightarrow{2} 2$ A Earns =  $\frac{6}{11} \times 1100 = 600$ B earns =  $\frac{3}{11} \times 1100 = 300$ C earns =  $\frac{2}{11} \times 1100 = 200$ : Earning of A and C exceeds from earnings of B = 600 + 200-300 = 50019. (3) Total number of girls in school G, H, I = 700 + 1300 + 800 = 2800Total number of girls in school J, K, L, M = 1100 + 900 + 500 + 400 = 2900: Difference between them = 2900 - 2800 = 10020. (4)  $\frac{\cot 60^{\circ} - \cot 30^{\circ}}{1 + \cot 60^{\circ} \cot 30^{\circ}}$  $=\frac{\frac{1}{\sqrt{3}}-\sqrt{3}}{\frac{1}{\sqrt{3}}}\Rightarrow-\frac{1}{\sqrt{3}}$ 21. (4) ATQ,  $100\% \equiv 4000$ 1% = 4017% = 6804000 makes angle 360° 680 makes angle =  $\frac{360^{\circ}}{4000} \times 680$ = 62.2

- 22. (1) As the angle subtended by chord AB on the 2.(3)а circumference is 90°. So the chord is the diameter of the circle.  $\therefore$  Length of diameter = 2 × 8 3.(4)  $cm \Rightarrow 16 cm$
- 23. (4) We know the centroid divides median in 2:1.



- 24. (3)  $(125)^{\frac{1}{6}}$ ,  $(11)^{\frac{1}{3}}$ ,  $(12)^{\frac{1}{6}}$ ,  $(5)^{\frac{1}{4}}$ Multiply the power of each term with LCM of 6, 3, 6, 4.  $\Rightarrow (125)^{\frac{12}{6}}, (11)^{\frac{12}{3}}, (12)^{\frac{12}{6}}, (5)^{\frac{12}{4}}$  $\Rightarrow$  (125)<sup>2</sup>, (11)<sup>2</sup>, (12)<sup>2</sup> (5)<sup>2</sup>  $\therefore$  Largest is  $(125)^{\frac{1}{6}}$
- 25. (2)  $a + \frac{1}{a} = 4$

Squaring both sides.

$$a^{2} + \frac{1}{a^{2}} = (4)^{2} - 2 = 14$$

Again squaring both sides

$$a^4 + \frac{1}{a^4} = (14)^2 - 2 = 194$$
  
ANSWER KEY

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🕨 GENERAL AWARENESS 🛛 🛛
<ul> <li>1.(4) Top performers in GHI 2022 – Belarus, Bosnia &amp; Herzegovina, Chile, China and Croatia Worst Performers in GHI 2022 – Chad, Democratic Republic of Congo, Madagascar, Central</li> </ul>

African Republic and Yemen

- EPROM (erasable programmable read-only memory) is memory that does not lose its data when the power supply is cut off.
- A molecule of an element which has the atomicity 1 or having only one atom in its molecule, is called monoatomic. The noble gases are examples of monatomic gases- Helium, Radon, Neon, Xenon, Argon, Krypton.
- 5.(2) Mahatma Gandhi returns to India from South Africa on 9 January 1915. Gandhi returned to India from South Africa in 1915 at the re-quest of Gopal Krishna Gokhale.
- 6.(1)Whooping cough, also known as pertussis, is a very contagious respiratory illness caused by a type of bacteria.
- 7.(2)8.(2)
  - TThe asteroid belt is a torusshaped region in the Solar System, centered on the Sun and roughly spanning the space between the orbits of the planets Jupiter and Mars. It contains a great many solid, irregularly shaped bodies called asteroids or minor planets.
- 10.(1) All India Financial Institutions are a group of regulatory bodies which help in regulating the economy. The purpose of these special bodies is to cater the needs of specific segments of the economy. List of AIFIs Export - Import Bank of India

(Exim Bank) National Bank for Agriculture and Rural Development (NABARD)

Small Industries Development Bank of India (SIDBI) National Housing Bank (NHB)

National Bank for Financing Infrastructure and Development (NaBFID)

11. (4) Capital Currency Turkey Ankara Lira Mangolia Ulaanbaatar Tugrik Saudi Arabia Riyadh Rival

Persepolis Persia

- Rial 12.(3) 2023 FIFA U-20 World Cup will be held in Argentina (originally
- Indonesia). 13.(2) The approximate length of the Great Himalayan range is also known as the central axial range. It is 2,500 km from east to west, and its width varies between 160-400 km from north to south.
- 14.(4) Motto Celebrating unity through sports

- 15. (3) Jack Ma Alibaba (4 April 1999) Steve Jobs - Apple (1 April 1976) Jeff Bezos - Amazon (1 April 1976 Elon Musk - Tesla (2003), space X (14 March 2002)
- 16.(1) Gondwana, historic region in central India, comprising portions of Madhya Pradesh, Telangana, Andhra Pradesh, and Maharashtra states. It is inhabited by the Gonds, a group of Dravidian-speaking peoples.
- 17.(3)18.(4)

19.(3)

20.(1) The northernmost is the Great Himalaya or Himadri. The world's highest peaks are located in this range. Middle Himalaya or Himachal is located to the south of Himadri.

The Shiwalik is the southernmost range.

The average height of Shiwalik range is 3,000 to 4,000 feet.

Article 350-B provides for a 21.(2)Special Officer for Linguistic Minorities

Article 351: Directive For Development of The Hindi Language Article 348(1)(a) of the Constitution of India states that all proceedings in the Supreme Court and in every High Court, shall be in English language.

- 22.(4)
- 23.(3) Umesh Kumar-Vidarbha Hurricane
- Kapil Dev Haryana Hurricane 24.(1)The Madras Forest Act, 1882 disrupted the lives of the tribal people. It barred them from engaging in their traditional agricultural activities like shifting cultivation. The British were finally able to capture him. They tied him to a tree and shot him dead on 7 May 1924.
- 25.(4) Eid al-Adha or the Feast of Sacrifice is the second and the larger of the two main holidays celebrated in Islam. It honours the willingness of Abraham to sacrifice his son Ishmael as an act of obedience to God's command.

Losar also known as Tibetan New Year, is a festival in Tibetan Buddhism.

These Gurus were responsible for shaping the beliefs of the Sikhs. Their birthdays, known as Gurpurab, are occasions for celebration and prayer among the Sikhs.

ANSWER KEY									
1. $(4)$	2. (3)	3. (4)	4. (2)	5. $(2)$					
11.(4)	12.(2)	8. (2) 13. (2)	9. (2) 14. (4)	10. (1)					
16.(1)	17.(3)	18. (4) 23. (3)	19.(3)	20.(1)					

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