EXCLUSE LANGUAGE AND COMPARETENSION           1. (2)         2. (1)         3. (1)         4. (1)         5. (3)         6. (1)         7. (1)         8. (4)         9. (1)           10. (4)         11. (3)         12. (4)         13. (3)         14. (3)         15. (1)         16. (4)         17. (4)         18. (2)           19. (1)         20. (4)         22. (1)         23. (2)         24. (3)         25. (1)         25. (1)           EXPLANATION:            EXPLANATION:								
1. (2)2. (1)3. (1)4. (1)5. (3)6. (1)7. (1)8. (4)9. (1)10. (4)11. (3)12. (4)13. (3)14. (3)15. (1)16. (4)17. (4)18. (2)19. (1)20. (4)21. (3)22. (1)23. (2)24. (3)25. (1)25. (1)EXPLANATION:-2. (1)Replace has' with 'is'.8. (4)Replace 'mile' with 'miles'. thousands of miles' is the correct expression.16. (4)'Clown' is incorrectly spelt here, means- a fool, jester, or comedian in an entertainment (such as a play).18. (2)'singular Subject+ was+ v <sub>3</sub> ' is the correct structure of Past Indefinite (Passive Voice.)WORDMEANING IN ENGLISHMEANING IN HINDIAbstinenceStopping yourself from having or doing something that you enjoyपर्वजAduiationExtreme admirationअत्वधिक प्रदेश और आरtAmoralNot following any moral rulesगींतिहीन, अत्रैकिAmorousShowing sexual desire and love for somebodyअव्यक्षक प्रपंत और आरtAmorhousHaving no apparent shape or organizationक्षेवAmorhousHaving no apparent shape or organizationक्षेवAntsyPerturbed , agitated, impatient, or restless,घींति या परंत्रानCelibacyThe state of voluntarily being unmarriedआवंवार्त जोवराContinenceThe ability to control your feelings and emotionsसंवमCuricA person who believes that people only do things for themselves,विंदक, जेवरानीFawnTo seek notice or favour by flattery or s								
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Leonine Lion like characteristics शर जसा								
Lionize Give a lot of public attention and approval to (someone); $uivequi + 4ivequi + 4iveq$								
treat as a celebrity.								
Porcine OI, allecting, or resembling a pig or pigs. सुअर जस								
Reclusive Someone who avoids other people's company.								
GENERAL INTELLIGENCE & REASONING Canada and S. (3) 1. special								
1. $(3) 15^2 - 15 = 210$ (BS) - (TA) = $(2 + 19) - (20 + 1)$ 3. speck								
Similarly, $(22)^2 - 22 = 484 - 22 = 484 - 321 - 21 = 0$ $\Rightarrow 21 - 21 = 0$ 4. speckle								
2. (1) SAGE $\Rightarrow$ (GE) – (SP) Similarly, 5. spectacle								
$(7+5) - (19+1) \qquad \qquad$								
$\Rightarrow 12 - 20 = -8 \qquad (18 + 2) - (22 + 5) = 20 - 27 \qquad \times 2  \times 2$								
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5. (2)  
F  
N  
L  
6. (1) 36 @ 2 
$$\Rightarrow$$
 36<sup>2</sup>  $\Rightarrow$  1296  
4 @ 4  $\Rightarrow$  4<sup>2</sup>  $\Rightarrow$  256  
9 @ 3  $\Rightarrow$  9<sup>2</sup>  $\Rightarrow$  729  
7. (2)  
8. (4)  
9. (2) L  $\stackrel{+3}{\longrightarrow}$  O  
Y  $\stackrel{+3}{\longrightarrow}$  B  
Similarly,  
M $\stackrel{+3}{\longrightarrow}$  P  
Z  $\stackrel{+3}{\longrightarrow}$  C  
10. (4)  
11. (3) (40, 20, 82)  
(40 + 20 × 2 + 2)  $\Rightarrow$  182  
and  
(36, 18, 74)  
(36 + 18 × 2 + 2)  $\Rightarrow$  74  
Similarly,  
(212, 106, 426)  
(212 + 106 × 2 + 2)  $\Rightarrow$  426  
12. (3) 5 - 6  $\div$  3 × 9 + 1  
Interchanging 5 and 9  
9 - 6  $\div$  3 × 5 + 1 = 0  
9 - 10 + 1 = 0  
10 - 10 = 0  
13. (3) Except option 3.  
Logic : +1, -3, +5  
14. (2)  
15. (4) N same N same N same N same N  
R  $\stackrel{-9}{\longrightarrow}$  I  $\stackrel{-9}{\longrightarrow}$  Z  $\stackrel{-9}{\longrightarrow}$  Q  $\stackrel{-9}{\longrightarrow}$  H  
Q  $\stackrel{+8}{\longrightarrow}$  Y  $\stackrel{+8}{\longrightarrow}$  G  $\stackrel{+8}{\longrightarrow}$  W  
S  $\stackrel{-10}{\longrightarrow}$  I  $\stackrel{-10}{\longrightarrow}$  Y  $\stackrel{-10}{\longrightarrow}$  O  $\stackrel{-10}{\longrightarrow}$  E  
16. (4) Students who plays only 1  
game  
 $\Rightarrow$  19 (Chess) + 21 (Ludo) +  
13 (Squash)  
 $\Rightarrow$  53 student play only 1  
game  
17. (3) 34, 17, 51  $\Rightarrow$  (17 × 2), (17 × 1),  
(17 × 3)  
and 46, 23, 69  $\Rightarrow$  (23 × 2),  
(23 × 1), (23 × 3)  
Similarly,  
72, 36, 108  $\Rightarrow$  (36 × 2), (36 × 1),

$$(36 \times 3)$$
18. (4)  
19. (4) (36, 48, 45)  $\Rightarrow$  48 -  $\frac{36}{12} \Rightarrow$  45  
and  
(72, 96, 90)  $\Rightarrow$  96 -  $\frac{72}{12} \Rightarrow$  90  
Similarly,  
(60, 80, 75)  $\Rightarrow$  80 -  $\frac{60}{12} \Rightarrow$  75  
20. (4) In (figure 1) and (figure 2), B

20 В and C is common so

A  $\xrightarrow{\text{Opposite}}$  Z 21. (4)



The man is maternal grand 3. father of shivangi.

23.(4)Except option 4 all are correct. Wall in made by Bricks.

Paper is made up of Pulp. Furniture is made of Wood.

- 24. (1) Pen is used by the Author to write a Book. Similarly, a Gun is used by soldiers to fight with the enemy.
- 25. (1) Patter is the sound of Rain Bleat is the sound of Goat

ANSWER KEY									
(3)	2.	(1)	3.	(3)	4.	(4)	5.	(2)	
(1)	7.	(2)	8.	(4)	9.	(2)	10.	(4)	
(3)	12	.(3)	13.	(3)	14.	(2)	15.	(4)	
(4)	17.	.(3)	18.	(4)	19.	(4)	20.	(4)	
(4)	22.	.(2)	23.	(4)	24.	(1)	25.	(1)	
	<ul> <li>(3)</li> <li>(1)</li> <li>(3)</li> <li>(4)</li> <li>(4)</li> </ul>	<ul> <li>(3) 2.</li> <li>(1) 7.</li> <li>(3) 12.</li> <li>(4) 17.</li> <li>(4) 22.</li> </ul>	AN (3) 2. (1) (1) 7. (2) (3) 12.(3) (4) 17.(3) (4) 22.(2)	ANSWE         (3) 2. (1) 3.         (1) 7. (2) 8.         (3) 12.(3) 13.         (4) 17.(3) 18.         (4) 22.(2) 23.	ANSWER P           (3) 2. (1) 3. (3)           (1) 7. (2) 8. (4)           (3) 12.(3) 13. (3)           (4) 17.(3) 18. (4)           (4) 22.(2) 23. (4)	ANSWER KEY           (3) 2. (1) 3. (3) 4.           (1) 7. (2) 8. (4) 9.           (3) 12.(3) 13. (3) 14.           (4) 17.(3) 18. (4) 19.           (4) 22.(2) 23. (4) 24.	ANSWER KEY           (3) 2. (1) 3. (3) 4. (4)           (1) 7. (2) 8. (4) 9. (2)           (3) 12.(3) 13. (3) 14.(2)           (4) 17.(3) 18. (4) 19.(4)           (4) 22.(2) 23. (4) 24.(1)	ANSWER KEY           (3) 2. (1) 3. (3) 4. (4) 5.           (1) 7. (2) 8. (4) 9. (2) 10.           (3) 12.(3) 13. (3) 14.(2) 15.           (4) 17.(3) 18. (4) 19.(4) 20.           (4) 22.(2) 23. (4) 24.(1) 25.	

## QUANTITATIVE APTITUDE

1. (1) Length of direct common tangent =



$$30 = \sqrt{x^{2} - (20 - 4)^{2}}$$

$$30 = \sqrt{x^{2} - 16^{2}}$$
Squaring both sides
$$900 = x^{2} - 16^{2}$$

$$x^{2} = 900 + 16^{2}$$

$$x^{2} = 900 + 256$$

$$x^{2} = 1156$$

$$x = 34$$
(1) Divisibility. Pulse

2.

(1) Divisibility Rule of  $11 \Rightarrow$ Difference between the sum of their alternate pair must be zero or multiple of 11.

$$6 + 1 + 1 = (6 + 6) - (m + 1) = 12 - (m + 1)$$
  
By putting m = 0  
 $\Rightarrow 12 - (0 + 1) = 11$  (It is divisible by 11)  
m = 0  
(1) Average export =

= 62,000

Minimum export = 20,000 Percentage of minimum export is less than average export by

$$= \frac{62,000 - 20,000}{62,000} \times 100$$

$$=\frac{42,000}{62,000}\times100=67.74\%$$

(2) Average CP of J and K  $\Rightarrow$ 4.  $\frac{700+900}{2}$  = 800

Average SP of L and M

$$=\frac{600+800}{2} \Rightarrow \frac{1400}{2} \Rightarrow 700$$

Loss Percentage

$$= \left(\frac{800 - 700}{700}\right) \times 100$$
$$= \frac{1}{7} \times 100 = 14\frac{2}{7}\%$$

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52 years ......(iii) C Rustam + Preetam + Geetam  $=\frac{152}{2}=76$  years .....(iv)  $\Rightarrow$  By comparing eq. (i) and (iv) Geetam's age = 76 - 6016 years Age of youngest after 5 years  $\Rightarrow$  = 16 + 5 = 21 years 13. (2) We know  $\frac{\text{CP-SP}}{\text{CP}} \times 100 = \% \text{ loss}$ ATQ,  $100 \times \frac{CP - 210}{CP} = l_1$ ..(i)  $100 \times \frac{CP - 420}{CP} = l_2$ ...(ii)  $l_1 - l_2 = 7$  $100 \times \left(\frac{\text{CP} - 210}{\text{CP}}\right) - 100 \left(\frac{\text{CP} - 420}{\text{CP}}\right)$ = 7  $\frac{100}{CP}$  [CP - 210 - CP + 420]  $\frac{100}{CP}[210] = 7$  $CP = \frac{210 \times 10}{7}$ CP = ₹3000 CP of table = ₹3000 14. (1) secx + cosx =  $\frac{5}{2}$ , (Put  $x = 60^{\circ}$ )  $\sec 60^\circ + \cos 60^\circ \Rightarrow 2 + \frac{1}{2} = \frac{5}{2}$ Percentage decrease =  $\frac{1}{50} \times 100$   $\sin^2 x \Rightarrow \sin^2 60^\circ = \left(\frac{\sqrt{3}}{2}\right)^2 = \left(\frac{3}{4}\right)$ 15. (2) Jobs in 2010 is minimum  $\Rightarrow 2010$ 16. (4)

$$P \vdash \frac{720 \text{ km}}{(6 \text{ am})} Q$$

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Speed of train =  $20m/s \times \frac{18}{5}$ = 72 km/hrsTotal time =  $\frac{720 \text{km}}{72 \text{km/h}} + 1\frac{1}{2}$  $\Rightarrow$  10 hr + 1 $\frac{1}{2}$  (stoppage)  $\Rightarrow 11\frac{1}{2}$  hrs  $\Rightarrow$  5 : 30 pm 17. (2) Statement - I Total production of J = (90 +70 + 50 + 45 + 40) = 295Total production of K = (55 +60 + 90 + 80 + 65) = 350Difference = 350 - 295 = 55 Statement - II Product of J in P and Q = Product by K in R and S  $\times \frac{92.11}{100}$  $= 90 + 70 = 90 + 80 \times \frac{90.11}{100}$  $160 = 170 \times \frac{92.11}{100}$  $160 \neq 156.587$ Both statements are false. 18. (1) 1800 1800 10% →180 Interest = 1800 + 1980 = 3780 Rate of Interest =  $\frac{20\%}{2} \Rightarrow 10\%$ half yearly Total compound interest = ₹3780 19. (3)  $\frac{CP}{MP} \Rightarrow \frac{100-(discount \%)}{100+(profit \%)}$  $\Rightarrow \frac{130x}{100} \Rightarrow 13,000$ 

 $\Rightarrow$  (x = 1000)  $CP = 9x = 9 \times 1000 = Rs. 9000$ 20. (4) Let, Angle of triangle = 2x, 2x, 5x Sum of all angle of triangle  $= 180^{\circ}$  $9x = 180^{\circ}$  $x = 20^{\circ}$ Largest angle =  $5x = 5 \times 20 =$ 100° degree. 21. (1)  $\frac{\left(\frac{5}{6} \times \frac{1}{3} \times \frac{12}{25} - \frac{1}{3} \times \frac{5}{6} \times \frac{18}{25}\right)}{\left(\frac{25}{12} \times \frac{1}{6} \times \frac{1}{5} + \frac{3}{8} \times \frac{12}{25} \times \frac{5}{6}\right)}$  $=\frac{\frac{1}{6\times3\times25}\times\frac{(60-90)}{1}}{\left(\frac{5}{36}+\frac{3}{20}\right)}$  $\Rightarrow \frac{\frac{-1}{15}}{\frac{25+27}{12}} \Rightarrow \frac{-1}{15} \times \frac{180}{42} \Rightarrow \left(\frac{-3}{13}\right)$ 22. (1) Rani Priva Guddu 10 days 15 days 12 days (Eff.) 6 60 (Total work) Ratio of their efficiency = 6 : 4 : 5 Priya's share =  $\frac{4}{15} \times 9000 = 2400$ 23. (1) Length = 8 cmBreath = 16 cmHeight = 4 cmTotal surface area of cuboid = 2(lb + bh + hl) $2(8 \times 16 + 16 \times 47 + 4 \times 8)$ 2(128 + 64 + 32)2 (224)  $\Rightarrow$  448 cm<sup>2</sup> 24. (1) a = 12, B = -7, C = -5

$$a^{3} + b^{3} + c^{3} = (a+b+c) (a^{2}+b^{2}+c^{2})$$
  
+ 3abc  
 $(a+b+c) \Rightarrow 12 - 7 - 5 = 0$   
Then rule of  $a^{3} + b^{3} + c^{3} = 3abc$ 

25. (4) 2(x) = 3(y) = 4(z) = 12 (say) x = 6, y = 4, z = 3Share of x, y, z = (6 : 4 : 3) Y share  $=\frac{4}{13} \times (13,000)$  = ₹4000 **ANSWER KEY** 1. (1) 2. (1) 3. (1) 4. (2) 5. (3) 6. (1) 7. (1) 8. (4) 9. (2) 10. (3) 11. (1) 12. (1) 13. (2) 14. (1) 15. (2) 16. (4) 17. (2) 18. (1) 19. (3) 20. (4) 21. (4) 22. (1) 23. (1) 24. (1) 25. (4) **GENERAL AWARENESS** 1.(3) The Irani Trophy or Irani Cup,

 $3 \times 12 \times -7 \times -5 = 1260$ 

(3) The Irani Trophy or Irani Cup, also known as the Mastercard Irani Trophy due to sponsorship reasons. It is played annually between the winners of the Ranji Trophy and a Rest of India cricket team. The Rest of India team includes players from Ranji teams of various states. Madhya Pradesh was the runner up in 2022.

Most runs Wasim Jaffer (1,294)

Most wickets Padmakar Shivalkar (51)

- 2.(2) The major iron ore belts in India are Odisha- Jharkhand belt, Durg-Bastar-Chandrapur belt, Ballari-Chitradurga-Chikkamagaluru-Tumakuru belt, Maharashtra-Goa belt.
- 4.(4)
- 5.(1) Theme of World Refugee Day 2022 - "Together we heal, learn and shine."

Theme of Refugee Week 2023: Compassion

6.(3)

3.(1)

7.(1)

- 8.(1) In the 2022 Birmingham Commonwealth Games, Annu Rani scripted history as she became the first Indian female javelin thrower to win a medal, a bronze.
- 9.(3) 1983 Bhanu Athaiya (Gandhi) for Best Costume Design

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2009 - Resul Pookutty(Slumdog Millionaire) for Best Sound Mixing.

2009 - Gulzar Best Original Song (For "Jai Ho")

2009 - A. R. Rahman for Best Original Score

2023 - Kartiki Gonsalves and Guneet Monga for The Elephant Whisperers

2023 - RRR for Naatu Naatu

- 10.(4)
- 11.(3)
- 12.(2) Rhine Valley is the valley, or any section of it, of the river Rhine in Europe.

13.(2)

14.(4) Blood is composed of blood cells suspended in blood plasma. Plasma, which constitutes 55% of blood fluid, is mostly water (92% by volume), and contains proteins, glucose, mineral ions, hormones, carbon dioxide (plasma being the main medium for excretory product transportation), and blood cells themselves. Albumin is the main protein in plasma, and it functions to regulate the colloidal osmotic pressure of blood.

The blood cells are mainly red blood cells (also called RBCs or erythrocytes), white blood cells (also called WBCs or leukocytes), and in mammals platelets (also called thrombocytes). The most abundant cells in vertebrate blood are red blood cells.These contain hemoglobin, an iron-containing protein, which facilitates oxygen transport by reversibly binding to this respiratory gas thereby increasing its solubility in blood. In contrast, carbon dioxide is mostly transported extracellularly as bicarbonate ion transported in plasma.

15.(2) The International Space Station (ISS), which has been in orbit since 1998, has been jointly developed by Russia and the United States.

One of the few areas where cooperation between Russia, the

United States, and its allies had not been ruined by tensions over Ukraine and other issues up until now was space exploration. One of the Soviet space program's major achievements and a significant source of national pride in Russia is the launch of the first satellite in 1957 and the sending of the first man into space in 1961.

Roscosmos Chief: Yury Borisov

16.(2) Dal is a lake in Srinagar, is variously known as the "Lake of Flowers", "Jewel in the crown of Kashmir".

> Loktak Lake is in Manipur. The Sambhar Salt Lake, India's largest inland salt lake, is located in Sambhar Lake Town, Jaipur district of Rajasthan, India, southwest of the city of Jaipur and northeast of Ajmer, Rajasthan.

- 17.(3)
- 18.(4)
- 19.(1) The 60th Amendment, 1988 amended article 276 of the Constitution relating to taxes on professions, trades, callings and employments.

50th Constitutional Amendment Act 1984 amended article 33.

The 7th Amendment of Indian Constitution was needed to implement the recommendations of the States Reorganisation Commission regarding the reorganization of the states on a linguistic basis.

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- 20.(2) Buddha preaching his first sermon at Sarnath.This event is known as Dhammacakkappavattana. Buddha delivered his maximum number of sermons at Shravasti, the capital of the kingdom of Kosala.
- 21.(3) Shovana Narayan Kathak Rukmini Devi - Bharatanatyam Birju Maharaj - Bharatanatyam
- 22.(3) Tissue that supports, protects, and gives structure to other tissues and organs in the body.
- 23.(4) Japan Concept of "procedure established by Law" Germany - Fundamental Rights are suspended during Emergency
- 24.(3) Priya Jhingan is an Indian Army officer and Lady Cadet No 1 and Silver Medalist from the first batch of 25 lady officers who were commissioned in the Indian Army in 1993.

Harita Kaur Deol was a pilot with the Indian Air Force. She was the first woman pilot to fly solo in the Indian Air Force.

Shanti Tigga was the first female jawan in the Indian Army.

25.(2) Animal waste, oil and urea are some of the organic impurities present in sewage.

			AN	SWI	R I	КEЧ			
1.	(3)	2.	(2)	3.	(1)	4.	(4)	5.	(1)
6.	(3)	7.	(1)	8.	(1)	9.	(3)	10.	(4)
11.	(3)	12.	(2)	13.	(2)	14.	. (4)	15.	(2)
16.	(2)	17.	(3)	18.	(4)	19.	(1)	20.	(2)
21.	(3)	22.	(3)	23.	(4)	24.	. (3)	25.	(2)

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