SET – 08	ANSWERS WI	TH EXPLANA	TION E	xam held o	n: 10/03/2	023 05:15 PM
🕨 ENGLISH LANGUAGI	E AND COMPREHENSION					
1. (4) 2 10. (4) 1 19. (3) 2 2. (4) 'In brown 9. (1) The c hing a climb 11. (2) Repla 12. (2) Conju 20. (4) Repla	2. (4) 3. (1) 1. (2) 12. (2) 20. (4) 21. (4) oad daylight' is the orrect word could as a cover ropes - ing up, etc. 	4. (3) 13. (4) 22. (4) the correct phra to be 'ropes' or ' very thick, str the groups' i to tused in direct carefully'. We state	5. (2) 14. (4) 23. (2) ase , means- wraps'. Wra ong string the s the correct oct speech need an adv	6. (4) 7 15. (1) 1 24. (2) 2 during the d ps -to put pa hat is used for t expression.	(1) 8. (6. (3) 17. (5. (4) lay, when ever aper or cloth a or tying or lifti	 2) 9. (1) 4) 18. (2) yone can see. round somebody/ .ng heavy things,
		DI	FFICULT WO	ORD		
WORD	MEANING IN EN	GLISH				MEANING IN HINDI
Clump Congregate Constant Convince Delible Delinquency	A small group of To come togethe Happening or ex To succeed in m Capable of being A situation in w	F plants or tree r in a crowd o isting all the t aking somebo g deleted. hich tax or bo	es growing to r group time or again dy believe so rrowed mono	ogether n and again, omething ey is not paio	persistent d	पेड़ों का झुरमुट एकत्रित होना लगातार किसी को विश्वास दिलाना; आश्वसत करना मिटाए जाने योग्य दिवालिया
Dissolve Eccentric Intensify	or paid back wh Used about a so Strange or unus To become or to	en it should b lid) to become ual, idiosyncr make someth	e, default or to make atic ing greater c	something b or stronger	ecome liquid	घुलना या घोलना विलक्षण व्यक्ति तीव्रतर, प्रबल या उग्र कर देना
Intermittent	Stopping for a sl	hort time and	then startin	g again seve	ral times	रुक-रुक कर होने वाला , आंतरापिक
Marinate	To coat or cover before cooking o	(food) with he r serving	rbs, spices,	etc. And let	rest	तेल-मसाले आदि के मिश्रण मे लपेटना
Tandinasa	The quality of f	changing	a. latamaga			।नरतर जेन ी
Unravel	To remove the k to come unfaste	nots from a pi ned in this wa	e; lateness. ece of string y, To make s	, thread, etc something cl	.ear.	दरा डोरी, धागे आदि के गाँठें सुलझााना, उजागर करना
Wane Wonted	To become gradu Habitual; usual.	ally weaker o	r less impor	tant, evanes	се	पतन अभयस्त
CENERAL INTELL	IGENCE & REASONING	6 . (1)6, 1	21, $17 \Rightarrow (6)$	$\sim 17)^2 = 121$	13. (2)	
1. (1) 7, 559, (8, 637, 5 Similarly 9, 1241,	$6 \Rightarrow 7^3 + 6^3 = 559$ $5 \Rightarrow 8^3 + 5^3 = 637$, $8 \Rightarrow 9^3 + 8^3 = 124$	38, 5 Sim 9, 8 7. (4) 1 153	576, 14 = (38 ilarly, 1, 18 = (9 ~1 202, 251, 30	$(-14)^2 = 576$ $(-18)^2 = 81$ $(-18)^2 = 81$	Р	
2. (4) 2, 1, 3, 4 3. (1) $1 \rightarrow 6, 5$ $1 \rightarrow 3, 2$, 5	8. (1) 9. (4) 7 F	6 + 1 = 176	+49 +49	14. (2)8 1 9 6 4 2 6 9	52457 <u>Reverse</u> 75 918
$\begin{array}{c} \text{Opposite} \\ 4. (4) \\ \hline \end{array}$	$5 \Leftrightarrow 2$	8 F	2 F 4 = 482		3216 2546 7156	$45281 \xrightarrow{\times} 81$ $5124 \xrightarrow{\times} 20651$
5. (2) <u>/H (A)</u> W I <u>N</u> K S	K = 8/2 5(6) = 5 4 9 7	3 F	1 F 8 = 831		7 1 3 0 7 6 5 4 2	2 8 Reverse 8 2 4 5 6
©U <u>N</u>	K 1 9 3 5	10. (4) Lion	— Den		15. (3)	Mother — Sister (Lady)
<u>A</u> S GKA →	A - 4 3 2 6 - 3 5 6	11. (3) 12. (1)			Navneet — S	Sister Maternal Aunt
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16. (4) The law of motion is derived by Issac Newton in the same way the theory of relativity in derived by Albert Einstein 17.(1) R Q M R +7 +5 +9 +11 +5 +9 +11 Ε +5 +9 +11 M F N +7 +5 +9 +11 **T K W J** 18. (4) 38 : $76 \Rightarrow 38 \times 2 = 76$ Similarly, $42:84 \Rightarrow 42 \times 2 = 84$ 19. (4) $\chi^{+3} \to A^{+4} \to E^{+5} J$ $N \xrightarrow{+3} O \xrightarrow{+4} U \xrightarrow{+5} Z$ $D \xrightarrow{+3} G \xrightarrow{+4} K \xrightarrow{+5} P$ $G \xrightarrow{+3} J \xrightarrow{+4} N \xrightarrow{+6} T$ (Odd) 20. (3) Ohm is unit of electric resistance similarly, seconds is unit of time. 21. (4) A N — E R Similarly, – F S ВО---22. (3) By hit and trial method Interchanging 2 and 6 $8 \times 6 + 12 \div 2 - 4 = 14$ $8 \times 2 + 12 \div 6 - 4 = 14$ 16 + 2 - 4 = 1414 = 1423. (3) 24. (2) HEWER С +5 -7 +5 -7 +5 -7 25. (2) $P \Leftrightarrow R$; $\# \Leftrightarrow Q$; $A \Leftrightarrow @$ So, # will be the face opposite to the face showing Q. ANSWER KEY 1. (1) 2. (4) 3. (1) 4. (4) 5. (2) 6. (1) 7. (4) 8. (1) 9. (4) 10. (4) 11. (3) 12.(1) 13. (2) 14.(2) 15. (3) 16. (4) 17.(1) 18. (4) 19.(4) 20. (3) 21. (4) 22. (3) 23. (3) 24. (2) 25. (2) QUANTITATIVE APTITUDE 1. (2) We know sin (A + B) = sin A cosB + cosAsinB. Now. $\sin x = \sin 50^\circ \cos 40^\circ + \cos 50^\circ$ sin40°. $sinx = sin90^{\circ}$ $x = 90^{\circ}$

2. (4) We know, $\tan A = \cot B$ when (A + B)= 90° Now. $\tan 2A = \cot (46 - A)$ $2A + 46 - A = 90^{\circ}$ $A = 44^{\circ}$ 3. (2)Insufficient data, so no conclusions follow. (4) 4. \cap From pythagorean theorem. $AD^2 = (50)^2 - (14)^2$ $AD^2 = 2500 - 196$ $AD^2 = 2304$ AD = 48Then $AB = 48 \times 2 = 96$ Sum of chord AB and diameter of this circle = $96 + 50 \times 2$ = 196 cm $2020 = \frac{117 + 113 + 83}{3} = \frac{313}{3}$ Average sale of brach A, B, C in 2021 = $\frac{99 + 74 + 101}{3}$ $=\frac{274}{3}$ Percentage of average sales of A, B, C in 2021 to average sales of A, B, C in 2020 is $\frac{274/3}{313/3} \times 100 = 97.53\%$ 6. (2) $\frac{x^2-1}{x} \Rightarrow \frac{x\left(x-\frac{1}{x}\right)}{x}$ $= x - \frac{1}{x}$ Now, $x^2 + \frac{1}{x^2} = 51$ $x^2 + \frac{1}{x^2} - 2 = 49$ $\left(x-\frac{1}{x}\right)^2 = (7)^2$ 7. (1) From right angle $\triangle PQS$, $QS = \sqrt{(6)^2 - (4)^2}$ 95

 $=\sqrt{36-16}$ cm $=\sqrt{20} \Rightarrow 2\sqrt{5} \text{ cm}$ 8. (3) Total cost price = 750 + 650 + 450 + 550 + 350 + 850 = 3600 Total profit = 250 + 200 + 350+450 + 300 + 400 = 1950: Difference between total cost price and profit $P_1 = 3600 - 1950 = 1650$ Total cost price of A and B = 750 + 650 = 1400Total selling price of E and F = (350 + 300) + (850 + 400) $= 650 + 1250 \Rightarrow 1900$.: Difference between selling price and cost price $P_2 = 1900$ - 1400 = 500 $\therefore P_1 - P_2 = 1650 - 500 = 1150$ 9. (1) Ratio of angle = 4 : 3 : 2 ATO. 4 = 80 $3 \equiv 60$ 2 = 40 \therefore Smallest angle is 40°. 5. (3) Average sale of branch A, B, Cin 10. (2) Total discount = 85000 -68000 = 17000 \therefore Requird discount % = $\frac{17000}{85000} \times 100$ = 20% 11. (1) For the number 2x64y is divisibility by 88. We first check the divisibitly of that number by 8 and 11 separately. Divisibility of 8:- To divisible by 8, last e digit must be divisible by 8. So, value of y = 8. Divisibility of 11:- To divisible by 11, sum of alternate number is zero or multiple of 11. Now, (2 + 6 + 8) - (x + 4) = 11Or, x = 1 Now, 6x - 5y $(6 \times 1) - (5 \times 8) = -34$ 12. (3) Let, Principal = P \therefore SI = $\frac{P}{5}$ $SI = \frac{P \times R \times T}{100}$ Or, R = $\frac{100P}{5 \times P \times 5}$ R = 4Time required to become interest equal to principal. P×100 P×4 T = 25 y

 \therefore Time required = 25 years 13.(1) Previous ratio of boys and girls= 3:2> (3×3) – (2×2) = 5 Present ratio of boys and girls = $2:3^{4}$ > [(2×40) − (−40×3)] -40 + 40ATQ, 5 = 200 $1 \equiv 40$ $3 \equiv 120$ \therefore Initial number of boys is 120. 14. (4) Population of P in year M and A = 300 + 200 = 500Population of Q in year K and L $= 500 + 350 \Rightarrow 850$ \therefore % of population of P in year M and N to population of Q in year K and L = $\frac{500}{850} \times 100$ = 41.17%15. (3) $\frac{(103)^2 - (101)^2}{102}$ (103 + 101)(103 - 101)102 $\frac{204 \times 12}{102} = 2 \times 2 = 4$ 16. (4) The average of an odd number 23. (4) Let, amount of money is 100% of consecutive natural numbers is the middle of the consecutive numbers. \therefore Consecutive numbers are = 33, 34, 35, 36..... 49. \therefore Smallest number is 33. 17. (1) A complete $\frac{2}{3}$ rd work in 60 days. \therefore A complete whole work in 90 days. \therefore A complete $\frac{1}{5}^{\text{th}}$ of work in 24. (4) Let cost price = 100% $\left(\frac{90}{5}\right)$. = 18 days. 18. (4) Area of rectangular garden = $(240 \times 80) \text{ m}^2$ $= 19200 \text{ m}^2$ \therefore Length of path = 240 + 8 = 248 m Breadth of path = 80 + 8 = 88m \therefore Area of path = (248 × 88)m² Area of path = (21824 - 19200) m² $= 2624 \text{ m}^2$

19. (2) Measure of 3rd angle = 180° $-(40^{\circ}+62^{\circ})$ $= 180^{\circ} - 102^{\circ}$ = 78° 20. (4) $\tan 8x = \cot 2x$ Or, $\tan 8x = \tan (90^\circ - 2x)$ $8\mathbf{x} = 90^\circ - 2\mathbf{x}$ $\mathbf{x} = 9^{\circ}$ \therefore tan5x = tan45° = 1 21. (3) Total number of patients on Monday and Wednesday = 146 + 138 = 284Total number of patients on Thursday = 152 .: Ratio of total number of patients on Monday and Wednesday to number of patients on Thursday = 284 : 152 = 72 : 38 22. (4) P + r = 21Squaring both sides. $(P + r)^2 = 441$ Or, $(P - r)^2 + 2pr = 441$ Or, $(P - r) = \sqrt{289}$ Or, P - r = 17Now. $P^{3} - r^{3}$ $= (p - r)^{3} + 3pr (p - r)$ $= (17)^3 + 3 \times 380 \times 17$ = 6851 After spending 10% money Remaining money = 90%Again after depositing 70% of remaining money, money remains = (90% - 63%) = 27%ATQ, 27% = 2646 $100\% = \frac{2646}{27} \times 100$ = 9800 ∴ Raj had initially 9800 \therefore Selling price = 50% ATQ, 50% = 4270 100% = 8540 Now, To gain profit of 40% Selling price = $\frac{8540}{100} \times 140$ = 1195625. (4) On factorization of 720 We get = $2^4 \times 3^2 \times 5$

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Number of factors = (Power + 1) \times (Power + 1) \times (Power + 1) $= (4 + 1) \times (2 + 1) \times (1 + 1)$ = 30 Now, Total number of factors except 1 and itself are = 30 - 2 = 28ANSWER KEY 1. (2) 2. (4) 3. 2) 4. (4) 5. (3)6. (2) 7. (1) 8. (3) 9. (1) 10. (2) 11. (1) 12.(3) 13. (1) 14.(4) 15. (3) 16. (4) 17.(1) 18. (4) 19.(2) 20. (4) 21. (3) 22.(4) 23. (4) 24.(4) 25. (4) **GENERAL AWARENESS** 1.(3) 2.(2) Photosynthesis does not take place in plants during night time as the sunlight is absent and the accumulation of carbon dioxide is more. 3.(4) The Pitt's India Act, 1784 also called the East India Company Act, 1784. Pitt's India Act, 1784 was passed to rectify the defects of the Regulating Act of 1773. It distinguished between the commercial and political functions of the company. It allowed the Court of Directors to manage the commercial affairs but created a new body called the Board of Control to manage the political affairs. It empowered the Board of Control to supervise and direct all operations of the civil and military government or revenues of the British possessions in India. The company's territories in India were for the first time called the 'British possessions in India'. The British Government was given supreme control over Company's affairs and its administration in India.

5.(2) **Deposition** is the laying down of sediment carried by wind, flowing water, the sea or ice. Sediment can be transported as pebbles, sand and mud, or as salts dissolved in water.

> Vaporization of an element or compound is a phase transition from the liquid phase to vapor.

> Fusion occurs when two atoms slam together to form a heavier

atom, like when two hydrogen atoms fuse to form one helium 15.(3) atom

- 6.(3)
- 7.(2) Malwa Plateau include the Mahi river in the west, the Chambal river in the centre and the Betwa river in the east and the headwaters of the Dhasan and Ken rivers. Other smaller rivers in the area are Shipra, Parbati and Gambhir.
- 9.(3) Maharashtra Ajanta Caves, Ellora Caves, The Victorian and Art Deco Ensemble of Mumbai, Chhatrapati Shivaji Maharaj Terminus, Elephanta Caves

Bihar - Mahabodhi Temple Complex, Nalanda University Madhya Pradesh - Khajuraho, Bhimbetka rock shelters, Sanchi Gujrat - Champaner-Pavagadh Archaeological Park, Historic City of Ahmadabad

- 10.(4) The Great Indian Diet Luke Coutinho and Shilpa Shetty Rani Mukerji - "candid, intimate" (autobiography)
- 12.(4) Jayaram Jayalalithaa served as Chief Minister of Tamil Nadu for more than fourteen years over six terms between 1991 and 2016.
- 14.(2) Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest Act" allows banks and other financial institutions for auctioning commercial or residential properties to recover a loan when a borrower fails to repay the loan amount.

The Government Securities Act, 2006 is a legislation of the Parliament of India, which aims to introduce various improvements in the government securities market and the management of government securities by the Reserve Bank of India.

The Companies Act 2013 is an Act of the Parliament of India on Indian company law which regulates incorporation of a company, responsibilities of a company, directors, dissolution of a company.

- 16.(1)
- 17.(1)2022 Asia Cup was played at U.A.E. Sri Lanka won the Cup.

Player of the series - Wanindu Hasaranga

Most runs - Mohammad Rizwan (281)

Most wickets -

India Bhuvneshwar Kumar (11) 2023 Asia Cup will be played in Pakisthan.

- 18.(3)Reita Faria(Miss World 1966), Aishwarya Rai(Miss World 1994), Sushmita Sen(Miss Universe 1994), Diana Hayden(Miss World 1997), Yukta Mookhey(Miss World 1999), Priyanka Chopra (Miss World 2000), Lara Dutta(Miss Universe 2000), Nicole Faria(Miss Earth 2010), Manushi Chhillar(Miss World 2017), Harnaaz Sandhu(Miss Universe 2021).
- 19.(2)The Western Ghats, also known as the Sahyadri mountain range. It is a UNESCO World Heritage Site and is one of the 36 biodiversity hotspots in the world. It is sometimes called the Great Escarpment of India.According to UNESCO, the Western Ghats are older than the Himalayas.

The range starts near south of the Tapti river and runs approximately 1,600 km (990 mi) through the states of Gujarat, Maharashtra, Karnataka, Goa, Kerala and Tamil Nadu ending at Marunthuvazh Malai near the southern tip of India.

The peak of Anamudi in Kerala is the highest peak in the Western Ghats, as well as the highest peak in India outside the Himalavas.

The Eastern Ghats are a discontinuous range of mountains along India's eastern coast. The Eastern Ghats pass through Odisha, Andhra Pradesh to Tamil Nadu in the south passing some parts of Karnataka as well as Telangana. They are cut through by four major rivers of

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peninsular India, Mahanadi, Godavari, Krishna, and Kaveri. Deomali with 1672 m height is the tallest point in Odisha. Arma Konda/Jindhagada Peak with 1680 m is the highest point in Andhra Pradesh.Kattahi Betta in BR hills with the height of 1822 m is the tallest peak in Eastern Ghats.

Thal ghat and Bhor ghat are important passes in Western Ghats which provide passage by road and rail between the Konkan Plains in the west and the Deccan Plateau in the east.

- 20.(4) India is the world's largest producer of milk, pulses and jute, and ranks as the second largest producer of rice, wheat, sugarcane, groundnut, vegetables, fruit and cotton.
- 22.(4)15th June World Wind Day 15th June - World Elder Abuse Awareness Day
- 23.(4) Ministry of Commerce and Industry - Piyush Goyal

Ministry of Micro, Small and Medium Enterprises - Narayan Rane

Ministry of Corporate Affairs -**Rao Inderjit Singh**

Ministry of Consumer Affairs, Food and Public Distribution -Piyush Goel

25.(4)**Sarhul** is a spring festival in Jharkhand. It is a symbol of commencement of the new year. The festival is celebrated for three days, from the 3rd day of Chaitra month in Sukla Paksh to Chaitra Purnima.

> Marking the start of spring and the first day of the lunar calendar, **Losar** is a popular festival of Arunachal Pradesh.

Tusu Festival is a folk festival held on the last day of the Bengali month of Poush.

ANSWER KEY

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

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