SET – 06	ANSWERS WITH EXPLANATION Exam held on : 10/03/20	023 11:45 AM						
ENGLISH LANGUAGE	AND COMPREHENSION							
1. (2) 2 10.(2) 1 19.(3) 2 3. (4) 'Subject	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2) 9. (3) 2) 18. (2) use (Passive Voice).						
5. (2) Replace 7. (1) Late thir 8. (2) We don't For evan	'raise'(उठान) with 'rise' (उठन) ties means around 38 or 39. t use article 'the' before a single Mountain, However, for groups of mo	untains, we do.						
11. (2) Replace 18. (2) 'hardly 19. (3) 'Perceive जानना, बोध	'or' with 'nor'. 'Neithernor' is the correct pair of conjunction. when' and 'NO sooner Than' are the correct pair of c e' is incorrectly spelt here, means- to notice or realize something. (इंद्रि होन्ना)	conjunctions. यों द्वारा ग्रहण करना, देखना,						
WORD	MEANING IN ENGLISH	MEANING IN HINDI						
Anxious	Worried and afraid, apprehensive	चिंतित						
Bohemian	socially unconventional person	रुढ़िमुक्त						
Boisterous	(used about a person or behaviour) noisy and full of energy	ऊधमी, शोरगुल मचाने वाला किंतु प्रसन्नचित्त						
Collected	Calm and in control of yourself, your feelings, thoughts, etc.	शांत और संयम में; भावनाओं, विचारों आदि पर नियंत्रण बनाए हुए						
Connoisseur	A person who knows a lot about art, good food, music, etc	विशेषज्ञ, कला का पारखी						
Convalescent	Recovering from an illness or medical treatment.	अच्छा हो जाना (बिमारी के बाद)						
Cosmopolitan	Containing people from all over the world	सर्वदेशीय						
Fiend	A very cruel person	राक्षस						
Flawless	Perfect; with no faults or mistakes	परिपूर्ण; त्रुटिरहित						
Gall	Rude behaviour showing a lack of respect that is surprising because the	निर्लज्ज, अप्रत्याशित, अशिष्टता						
	fuy person doing it is not embarrassed	व दुस्साहसपूर्ण						
Gallivant	To travel, roam, or move about for pleasure, meander	आवारागर्दी करना						
Glib	Using words in a way that is clever and quick, but not sincere	चतुराई से अपनी बात कहने वाला; वाक्पटु						
Grave	Bad or serious	प्रतिकूल या गंभीर						
Implausible	Not easy to believe	अकल्पनीय						
Inarticulate	Incapable of giving coherent, clear, or effective expression to one's ideas अस्पष्ट, जो अच्छा वक्ता नहीं हो							
	or feelings							
Junkie	A drug addict.	नशेबाज						
Obsequious	Making a great effort to please or agree with somebody, especially somebody who is important and powerful	चापलूस						
Stilettos.	Woman's shoes with high, narrow and pointed heels	नुकोली ऊँची जूती की एड़ी						
Vacillate	To keep changing your ideas or opinions about something, especially in संदेह करना a way that annoys other people							
Vile	Very bad or unpleasant, atrocious	बहुत खराब या अप्रिय						
Viscous	(used about liquids) thick and sticky; not flowing easily	- चिपचिपा						
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<u>GENERAL</u> INTELLIGENCE & REASONING (1. (2) 64 # 58 # 32 = $-26 \Rightarrow 64 -$ 58 - 32 = -26 $104 \# 17 \# 89 = -2 \Rightarrow 104 -$ 17 - 89 = -2Similarly 56 # 7 # 24 = **25** ⇒ 56 - 7 -13.(1) 24 = 2514.(2)2. (2) DO \longrightarrow 60 \Rightarrow 4 × 15 = 60 PIE \longrightarrow 720 \Rightarrow 16 × 9 × 5 = 720 Similarly CAT — $60 \Rightarrow 3 \times 1 \times 20 =$ 60 3. (4) Engineer works on site in same way Servant works in house. 4. (3) Thimpu is capital of Bhutan, Ε in same way Islamabad is 16. (3) capital of Pakistan. 17.(1)5. (2) Window Walls 18. (4) Broken 6. (3) Activity 7. (4) 8. (4) Interchanging, + and – I. $18 \div 3 + 8 \times 5 - 4 = 20$ $18 \div 3 - 8 \times 5 + 4 = 20$ 6 - 40 + 4 = 20**-**30 ≠ 20 II. $6 + 8 \times 9 \div 3 - 4 = 14$ $6 - 8 \times 9 \div 3 + 4 = 14$ 6 - 24 + 4 = 14- 14 ≠ 14 9. (4) C E M E N T +2 -2 +2 -2 +2 -2 C Ô Ċ P Ŕ Ė and HEIGHT +2 -2 +2 -2 +2 -2 C K E J R Similarly, F ΗΕR АТ 23. (1) 24. (3) F Ġ P 10. (4) 58 : 319 \Rightarrow (58 \times 5) + = 314 $32:176 \Rightarrow (35 \times 5) +$ = 176 76 : **418** \Rightarrow (76 \times 5) + $\frac{76}{2}$ 1.(1)= 418 11. (3)

12. (4) $\frac{331235}{66247} = 5\frac{51265}{10253} = 5$ 15265 = 5 3053 $\frac{126215}{25247} = 4.99 \text{ (Odd)}$ 2. (4)Total R V Opp Similarly, ΕL Opp 15. (2) A A **B** A B **C** A B C **D** A **B** C **D** Son-in-law 19. (1) 8, 63, 81 \Rightarrow 8² - 1 = 63/ (8 + 1)² = 81 11, 120, $144 \Rightarrow 11^2 - 1 = 120$ $(11 + 1)^2 = 144$ Similarly, 9, 80, $100 \Rightarrow 9^2 - 1 = 80/(9 + 1)^2 = 100$ $\begin{array}{c} 20. (4) H S \\ C X \end{array} Opp.$ M N **) Odd** 21. (1) ⁴⁸, 87, 165, 204, 282, 321, **399** +39 +78 +39 +78 +39 +78 22. (4) $108 - 11664 \Rightarrow 108 \times 108 =$ 11664 $116 - 13456 \Rightarrow 116 \times 116 =$ 13456 $112 - 12544 \Rightarrow 112 \times 112 =$ 12544 $104 - 10886 \Rightarrow 104 \times 104 =$ 10816 (Odd) 25. (4) Carpenter — Furniture ANSWER KEY 1. (2) 2. (2) 3. (4) 4. (3) 5. (2)6. (3) 7. (4) 8. (4) 9. (4) 10. (4) 11. (3) 12.(4) 13. (1) 14.(2) 15. (2) 16. (3) 17.(1) 18. (4) 19.(1) 20. (4) 21. (1) 22. (4) 23. (1) 24. (3) 25. (4) **QUANTITATIVE APTITUDE** Eff 3 A —20 ~ >60 (Total work) B --30

 $\mathbf{71}$

Ratio of efficiency of A and B = 3:2Working together A and B can complete the same work

of

cars

no.

$$=\frac{60}{5}=12$$

manufactured in 2017 and 2018 = (1600 + 2600) = 4200Total of trains no. manufactured in 2017 and 2018 = 1800 + 2000 = 3800 \therefore Sum of total no. of cars and trains = 3800 + 4200 = 8000 Again Total no. of buses manufactured in 2016, 2017, 2018 = 2000 + 1600 + 3000 = 6600 \therefore Ratio of sum of cars and trains manufactured in 2017 & 2018 to total no. of buses manufactured in 2016,

2017, 2018 = 8000 : 6600 = 40:33 3. (2) Let, breadth = xlength = x + 24Perimeter of the rectangular sheet = 2(x + x + 24)ATQ, 2(2x + 24) = 128x + 12 = 32x = 20

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length = x + 24
= 20 + 24 = 44 cm
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4. (2) According to the question

 $\frac{6000\times10\times2}{10} = 1200$ I. SI = 100 II. 10% = $\frac{-}{10}$ Ratio method **Principal Amount** 10 : 11 10 : 11 100 : 121CI = 21100 units = 6000 1 unit = 6021 units = 21 × 60 = 1260 5. (1) $\tan\theta + \cot\theta = 2$ $[\tan\theta = 45^{\circ}]$ $\tan 45^\circ + \cot 45^\circ = 2$ 1 + 1 = 22 = 2Then, $\tan 45^\circ - \cot 45^\circ = 0$ 6. (3)(a - b) = 5, ab = 150let, a = 15, b = 10 Value of $(a^3 - b^3) = 15^3 - 10^3$ = 3375 - 1000 = 2375



1 В sinx = $\frac{1}{2}$ $CB^2 = AC^2 - AB^2$ $CB^2 = 4 - 1$ $CB = \sqrt{3}$ Then, $(\sec^4 x + \csc^4 x) (\tan^4 x + \cot^4 x)$ $\Rightarrow \left\{ \left(\frac{2}{\sqrt{3}}\right)^4 + \left(\frac{2}{1}\right)^4 \right\} \left\{ \left(\frac{1}{\sqrt{3}}\right)^4 + \left(\frac{\sqrt{3}}{1}\right)^4 \right\}$ $\Rightarrow \left\{ \frac{16}{9} + 16 \right\} - \left\{ \frac{1}{9} + 9 \right\}$ $\Rightarrow \frac{160}{9} - \frac{82}{9} = \frac{78}{9} = \frac{26}{3}$ 15. (4) Prime numbers 23, 29, 31, 37, 41, 43, 47 So, 7 Prime numbers are there between 20 and 50. 16. (3) 2p + 5q = 12Squaring both sides $\begin{array}{l} (2p + 5q)^2 = (12)^2 \\ 4p^2 + 25q^2 + 20 \times 3 = 144 \\ 4p^2 + 25q^2 = 84 \end{array}$ 17. (4) As we know value of two sides is greater than other side (11 - 6) < AC < 17 \therefore Possible value of AC = 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 \therefore No. of possible values of AC is 11 18. (1) I. Cost price of G, H and I = 500 + 300 + 800 = 1600The profit of D, E and F =200 + 150 + 300 = 650ATQ, 650 ×100 = 40.625 1600 II. Total cost price = 700 +600 + 400 + 500 + 300 + 800 = 3300 Total profit = 200 + 150 + 300+400 + 250 + 350 = 1650Required ratio = 3300 : 1650 = 66 : 33 = 2 : 1 19. (3) Ratio of present age = Father Mother Son : 5 : 2 8 ATQ,

8 units = 48 1 unit = 6 Father = 48 years Mother = 30 years Son = 12 years After 3 years (age) = Father (51) Mother (33) Son (15) Average age of family after 3 years = $\frac{51 + 33 + 15}{3}$ = 33 years 20. (4) Successive discount = x + y $-\frac{1}{100}$ $= 12 + 10 - \frac{12 \times 10}{100}$ = 22 - 1.2 = 20.8% 21. (1) Janki purchased 10 dozens of corn at the rate of ₹180/ dozen 12 corns = ₹180 1 corn = ₹15 Profit Percent = $\frac{22-15}{15} \times 100$ = 46.66% 22. (3) Go through option $(2y - x + z)^2 = x^2 + 4y^2 + z^2 - 4xy + 4yz - 2xz$ 23. (2) D C В AB = 18 cm $OP = \frac{18}{2} = 9 \text{ cm}$ Area of circle = πr^2 $= 81\pi$ 24. (2) Let, total employees in sales department be x Sum of ages of all employees = 350x Sum of ages of all senior employees = 4500Sum of ages of remaining employees = 250(x-10)ATQ, 350x - 250(x - 10) = 4500Or, 350x - 250x = 4500 -2500 Or, x = 20 ... Total number of employees are 20. 25. (1) To reach the exam centre, Speed of Ram = $\frac{250}{6}$ km/hr

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Ram covers $\frac{3}{5}$ th of total distance (=150 km) in 3.5 hr ∴ Remaining time = [6 – (3.5+0.5)]hr = 2hr .: Speed of Ram Remaining distance time $=\frac{250-150}{2}$ km/hr = 50 km/hrANSWER KEY 1. (1) 2. (4) 3. (2) 4. (2) 5. (1)6. (3) 7. (1) 8. (1) 9. (4) 10. (2) 11. (4) 12.(1) 13. (4) 14.(1) 15. (4) 16. (3) 17.(4) 18. (1) 19.(3) 20. (4) 21. (1) 22. (3) 23. (2) 24. (2) 25. (1) **GENERAL AWARENESS** 1.(2)

2.(2) Zeb-un-Nissa was the eldest child of Emperor Aurangzeb. Sultana Chand Bibi was the Re-

gent of Bijapur Sultanate during the minority of Ibrahim Adil Shah II in 1580-1590, and regent of Ahmednagar Sultanate during 9.(1) the minority of her great nephew Bahadur Shah in 1595-1600. She is best known for defending Ahmednagar against the Mughal forces of Emperor Akbar in 1595. Jahanara Begum was the eldest surviving child of Emperor Shah Jahan and Mumtaz Mahal.

Nelson R. Mandela and Frederik 3.(1) Willem de Klerk Nobel Peace Prize for 1993. Rabindranath Tagore won the Nobel Prize for Literature in 1913

> for his collection Gitanjali published in London in 1912. Luthuli was awarded the 1960 Nobel Peace Prize for his role in leading the nonviolent anti-apartheid movement.

Gross domestic product (GDP) is 4.(3) the total monetary or market value of all the finished goods and services produced within a country's borders in a specific time period. According to IMF projections, In-

dia has overtaken the U.K. to become the world's fifth-largest economy and is now behind only the US, China, Japan and Germany.

Concave Mirror - Vehicle head-5.(1) lights, Shaving mirrors, Solar furnaces, Searchlights, Torches, Flashlights, Dental Mirror, Microrors.

Convex mirrors are used in magnification glasses, sunglasses, and rear view mirror in vehicles, ATMs, and street lights.

- 6.(1) Direct Tax Code Bill replaces the Income TaxAct, 1961 and the Wealth Tax Act, 1957. The Bill widens income tax slabs for individuals. Income between Rs 2 lakh to Rs 5 lakh will be taxed at 10%, between Rs 5 lakh and Rs 10 lakh at 20%, and that over Rs 10 lakh at 30%.
- 7.(2) A light pen is a computer input device in the form of a light-sensitive wand used in conjunction with a computer's cathode-ray tube (CRT) display.
- 8.(4) 2022 FIFA U-17 Women's World Cup (7^{th}) was the second time that India have been hosting a FIFA tournament, after the men's 2017 FIFA U-17 World Cup. Morocco and Tanzania and India, made their debuts in the tournament.

Spain won the tournament.

- An operating system (OS) is system software that manages computer hardware and software resources, and provides common services for computer programs.
- 10.(3) A supernova is the colossal explosion of a star
- 11.(4) Controller General of Defence Accounts (CGDA) Rajnish Kumar inaugurated PADMA. It is an automated Pay & Allowances module, launched for the Indian Coast Guard. Minister of Civil Aviation -Jyotiraditya Scindia Minister of Finance - Nirmala Sitharaman Minister of Defence - Rajnath Singh Minister of Culture - G. Kishan Reddv 12.(4) Best Picture - Everything Everywhere All at Once Best Actor - Brendan Fraser Best Actress - Michelle Yeoh Best Original Song - Naatu Naatu Best Animated Feature Guillermo del Toro's Pinocchio Best Director - Daniel Kwan **Best Director** – Daniel Scheinert Best Supporting Actress - Jamie Lee Curtis 13.(3) Drugs and Magic Remedies Act 1954

Delhi School Education Act 1973 Chit Funds Act-1982

- scopes, Telescopes, Makeup mir- 14.(4)Some medals won by PVSindhu-2016 Rio de Janeiro Olympic (Silver), 2020 Tokyo Olympic (Bronze), 2022 Manila Asian Championships (Bronze), 2023 Dubai Asia Mixed Team Championships(Bronze), 2022
 - Birmingham Commonwealth Games(Gold). 15.(1) 2022 National Games has been played in Ahmedabad. Gandhinagar, Surat, Vadodara, Rajkot and Bhavnagar in Guiarat. Its motto is Celebrating unity through sports.

Maharashtra 39 38 63 140

Services 61 35 32 128 Haryana 38 38 40 116

16.(1)

17.(4) Mukul Rohatgi - 12th

- KK Venugopal 13th
- 18.(3) Tsongmo Lake or Changgu Lake, is a glacial lake in Sikkim. Vembanad is the longest lake in India, located in Kerala. Loktak Lake is a freshwater lake of India, locted in Manipur.
- 19.(3) The best-known sections of the wall were built by the Ming dynasty (1368–1644).
- 20.(3) Fusion Artists Salim-Sulaiman, Shankar Tucker, Mame Khan, Jyoti Nooran, etc. Carnatic music Μ.
 - Balamuralikrishna, S. Sowmya, Sudha Ragunathan, Aruna Sairamk, Maharajapuram Santhanam, T. M. Krishna, Bombay Jayashri, S. J. Jananiy, Chembai, etc.

Hindustani classical music -Ustad Bismillah Khan, Pandit Bhimsen Joshi, and Ravi Shankar

- 21.(4) Kangto the highest point in Arunachal Pradesh.
- 22.(2) Banihal Pass is a mountain pass across the Pir Panjal Range which connects Jammu to Srinagar. Thamarassery is a mountain pass in Kerala, across the Western Ghats. Lipulekh Pass links the Byans

valley of Uttarakhand, India with the Tibet Autonomous Region of China.

- 23.(3)
- 24.(3)
- 25.(1) The Aga Khan Palace was built by Sultan Muhammed Shah Aga Khan III in the city of Pune

ANSWER KEY										
1.	(2)	2.	(2)	3.	(1)	4.	(3)	5.	(1)	
6.	(1)	7.	(2)	8.	(4)	9.	(1)	10.	(3)	
11.	(4)	12.	<u>(</u> 4)	13.	(3)	14.	(4)	15.	(1)	
2 02 8,	(11)	:4157A	ÌM4)́	18	ÈÌ)	06 9.	Ì3)	20.)(3)	
21.	(4)	22.	(2)	23.	(3)	24.	$\overline{(3)}$	25.	(1)	

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