SET - 34	ANS	SWERS WIT	'H EXPLAI	NATION	Exam he	ld on : 21,	/03/20	023 11:45 AM		
ENGLISH LAN	IGUAGE AND C	OMPREHENSION	d							
1. (2) 10. (4) 19. (3)	2. (2) 11. (3) 20. (3)	3. (3) 12.(1) 21.(3)	4. (2) 13. (2) 22. (2)	5. (4) 14. (1) 23. (4)	6. (2) 15.(3) 24.(1)	7. (2) 16. (4) 25. (1)	8. (3 17.(2	3) 9. (4) 2) 18. (1)		
EXPLANAT 3. (3) R 4. (2) P 13. (2) w 14. (1) R 17. (2) " WORD Abstract Abstruse Algae	CION:- Replace 'so Plural Sub ve need an Replace 'th Slim' is in MEA Exis Litth Very	pciety' 'with s ject (we) take a Adverb (Pro- nen' with 'that correctly spe NING IN ENO ting only as e known abo	ociety's'. es a Plural V perly) with an'. 'Than' is elt here, mes GLISH an idea, not ut or under ts that grow	Verb (keep). a verb (trea s used with ans- thin in t as a physi- stood by pe v mainly in	ted). a comparat an attracti cal thing ople water	tive degree. ive way		MEANING IN HINDI विचार या कल्पना मात्र में न कि कोई भौतिक वस्तु गूढ़, गहन, कठिन, दुर्बोध शैवाल, सेवार		
Algid	Mar	ked by prosti sure.	ration, cold	and clamm	y skin, and	low blood		ठंडा		
Beam Bitter	A lin Havi basi	ne of light ing or being a c taste sensa	a disagreeal tions	ole sharp ta	ste that is o	one of the f	our	प्रकाश-रेखा, किरण किरणपुंज कड़वा		
Fanatic Gelid Igneous	anatic A person who is very enthusiastic about something and may have extreme or dangerous opinions (especially about religion or politics) elid Icy; extremely cold. gneous Used about rocks) formed when magma comes out of a volcano and becomes solid						nave ditics) o and	कट्टर व्यक्ति (विशेषत: धर्म या राजनीति के विषय में) हिम-शीत ज्वालामुखी से निकले लावा के ठोस हो जाने पर बनी		
Militant Moderate	Enga Bein	aged in warfa g, having, us	are or comb sing, etc. Ne	at ither too mu	ach nor too	little of som	nething	(चट्टानें), आग्नेय उग्रवादी मध्यम स्तर का (न बहुत		
Penetrate Phlegm Recondite Sectarian	To g A sp Abst Con:	o through or ecific type of rruse, little k nected with t	into sometl mucus tha nown the difference	hing, especi t originates ces that exis	ally when t in your lur sts between	his is diffic ngs and thr religious g	ult oat roups	आधक न बहुत कम) भेदना, घुसना बलगम जिनके बारे में कम जानकारी ह सांप्रदायिक, पंथिक (विभिन्न धार्मिक वर्गों की भिन्नताओं ज		
Soar Sour Steam Surrogate Zealot	To fl Havi The One A pe abou	y aloft or abo ing a sharp t hot gas that acting in the rson who is at religion an	out aste like that is produced e place of ar very enthus ad politics	at of a lemo l by boiling nother iastic and l	n water nas strong b	peliefs, espe	ecially	संबायत) ऊपर उड़ना खट्टा वाष्प, भाप स्थानापन्न व्यक्ति विशेषकर धर्म एवं राजनीति के विषय में अतिउत्साही; कट्टरपंथी, समर्थक		

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6 Place Valu	Place Value	Interchanging × and – $15 \times 4 - 3 + 6 \div 1$ $15 \times 4 - 3 + 6$ = 60 - 3 + 6 = 63 \therefore Statement is correct
I N T E R N A L	Similarly, P = V = M = N = T = S	II. $15 - 4 \times 3 + 6 \div 1 = 63$
3. (1)	13 12 21 13 20 26 9 13	= - 15 Statement is incorrect
will come in the fourth position	Value Va	= 11 + 6 - 32
(1) (1) After arranging letters more	the last of the la	$= 11 + 6 - 8 \times 4$
I GENERAL INTELLIGENCE & REAJUNING I	M OU N T A I N	Interchanging × and –, $11 + 6 - 8 \times 8 \div 2$
	and	4. (1) I. $11 + 6 \times 8 - 8 \div 2 = 15$



 $=\frac{81}{2}$ cm 40.5 cm 2. (3) The 3 digit number series which are divisible by 20 is First term = 100Last term = 980 \therefore Difference = 20 \therefore nth term = a + (n - 1)d Or, 980 = 100 + (n - 1)20 Or, $\frac{980-100}{20} = n - 1$ Or, n = 44 + 1Or, n = 45 [n = no. of terms] ∴ Sum of all 3-digit number $=\frac{45}{2}(100+980)$ $= \frac{45}{2} \times 1080 \\ = 45 \times 540$ = 243003. (3) Total weight of 10 persons = (40×10) kg = 400 kg After joining new person total weight = (11 × 42) kg = 462 kg : Weight of new person = (462 – 400) kg – 62 kg 4. (2) $\operatorname{cosecA}(1 - \cos A)$ ($\operatorname{cosecA} +$ cotA) $= \frac{1}{\sin A} (1 - \cos A)$ $\left(\frac{1}{\sin A} + \frac{\cos A}{\sin A}\right)$ $=\frac{1}{\sin^2 A} (1 - \cos A) (1 + \cos A)$ $=\frac{1}{\sin^2 A} (1 - \cos^2 A) = \frac{1}{\sin^2 A}$ $\times \sin^2 A = 1$ 5. (2) Amount = 20000 Principal = 12500 : Interest = 20000 - 12500 = 7500 $\therefore \text{ Time} = \frac{7500 \times 100}{12500 \times 8} \text{ yr}$ = 7.5 yr 6. (4) Ratio of number of boys and girls = 5 : 4 = 9 ATQ, 9 = 414 $\begin{array}{l}1 \equiv 46\\5 \equiv 230\end{array}$ $4 \equiv 184$ After getting admitted 46 more boys, then the number of boys = 230 + 46 = 276

0

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∴ Ratio of boys and Girls = 276 : 184 = 3:27. (2) Curved surface area = $2\pi rh$ unit² $= 2 \times \frac{22}{7} \times 7 \times 5 \text{ cm}^2$ $= 220 \text{ cm}^2$ \therefore Total surface area = 220 + $2 \times \frac{22}{7} \times 49 \text{ cm}^2$ $= 220 + 308 \text{ cm}^2$ $= 528 \text{ cm}^2$ 8. (2) $\frac{\frac{3}{4} \div \frac{9}{64} + \frac{7}{11} \times \frac{121}{14} - \frac{9}{13} \times \frac{65}{36}}{\frac{1}{2} \div \frac{4}{5} + \frac{3}{4} \times \frac{16}{5}}$ $=\frac{\frac{16}{3}+\frac{11}{2}-\frac{5}{4}}{\frac{5}{8}+\frac{4}{5}}$ = 1150 171 9. (4) From triplet for the triangle ΔOQP We will get, OP = 13 10. (4) The average of an odd number series is the middle of that number series. Also, adding any number to every number is equivalent to adding that number to the average. Average of total 10 even number = A + 511. (2) sinA = $\frac{6}{7}$ $\therefore \cos A = \sqrt{1 - \sin^2 A}$ $=\sqrt{1-\frac{36}{49}}$ $=\frac{\sqrt{13}}{-}$ $\therefore \text{ secA} = \frac{1}{\cos A} = \frac{7}{\sqrt{13}}$ 12. (1) I. Production of sugar by A 16. (3) in year J and K = 70 + 50 = 120 Production of sugar by B in year L and M = 7ॅ0 + 60 = 130 % of production of A more to production of B $=\frac{10}{130} \times 100$ = 7.69% Statement is incorrect.

II. Total production of sugar by B in M and N = 60 + 45= 105Total production of sugar by A in K and L = 50 + 30= 80 ∴ Ratio of production by B to production by A = 105 : 80 = 21 : 16 : Statement is correct 13. (3) Let actual time taken scooter to reach x hr ATO, $80 \times (x-1) = 50 \times \left(x + \frac{4}{5}\right)$ Or, $8(x-1) = 5 \times \frac{5x+14}{5}$ Or, 8x - 5x = 12Or, x = 4 \therefore Total distance = 80×(4 –1) = 240 km km/hr = 60 km/hr14. (2) Ratio of P and Q = 120 : 100 = 6 : 5 Ratio of Q and R = 70 : 100= 7 : 10 $\therefore \text{ Ratio of P, Q and R} \\ \Rightarrow P : Q : R$ 6 5 : 5 $\frac{7}{35}$: 7 10 42 50 ATQ, 42 = 420 $1 \equiv 10$ 50 = 50015. (1) Let marked price = 100%After discount of 40%, selling price = 60%ÂTQ, $60\% \equiv 1260$ $1\% \equiv 21$ $100\% \equiv 2100$.: Marked price is 2100 $\frac{2\cos^3 A - \cos A}{\sin A - 2\sin^3 A} = 1$ Or, $\frac{2(2\cos^3 A - \cos A)}{2(\sin A - 2\sin^3 A)} = 1$ Or, $\frac{4\cos^3 A - 2\cos A}{2\sin A - 4\sin^3 A} = 1$ $4\cos^3 A - 3\cos A + \cos A$ =1 $-\sin A + 3\sin A - 4\sin^3 A$

Or, $\frac{\cos 3A + \cos A}{-\sin A + \sin 3A} = 1$ Or, cos3A + cosA = -sinA +sin3A If we consider $A = 45^{\circ}$, both sides of above equation satisfy, ∴ A = 45° 17. (3) Loss of article P = (300 - 250)= 50Loss of article Q = (400 - 375)= 25 Loss of article R = (350 - 250)= 100 Loss of article S = (500 - 350)= 150 \therefore Total loss = 50 + 25 + 100 + 150 = 325 \therefore Average loss = $\frac{325}{4}$ = 81.25 $\therefore \text{ Speed of scooter} = \frac{240}{4} \quad 18. \text{ (3) Ratio of efficiency of A, B} = 120 : 100$ 6:5 \therefore Total efficiency = (6 + 5) = 11 \therefore Total work = (20 × 11) unit \therefore B alone completes the whole work in = $\frac{20 \times 11}{5}$ = 44 days 19. (4) $\frac{K}{K^2 - 2K + 1} = \frac{1}{6}$ Or, $K^2 - 2K + 1 = 6K$ Or, K2 - 8K + 1 = 0Divide both side by K $K + \frac{1}{K} = 8$ Cubing both sides, $K^3 + \frac{1}{\kappa^3} = 512 - (3 \times 8)$ $K^3 + \frac{1}{K^3} = 488$ 20. (2) 10 R 16 As $\triangle ABC \sim \triangle PQR$ $\therefore 8 \equiv 16$ $1 \equiv 2$ $4 \equiv 8$ 10 = 20 \therefore Semi perimeter of $\triangle PQR$ $=\frac{20+8+16}{2}$ cm

= 22 cm
∴ Area
=
$$\sqrt{22(22-20)(22-8)(22-16)}$$
 cm²
= $\sqrt{22 \times 2 \times 14 \times 6}$ cm²

- $= 4\sqrt{231} \text{ cm}^2$
- 21. (4) As angle subtended b the chord at the major arc is half of the angle subtended at the center.
 ∴ Angle subtended by the chord AB on the major arc

$$=\frac{140^{\circ}}{2}$$

22. (3) Total passport issued per year = 7000 + 9000 + 7500 + 9500 + 6500 + 8500 = 48000 ∴ Average passport issued a

23. (4) $a^3 + b^3 = 1456$ Or $(a + b)^3$ 3al

or,
$$(a + b)^3 - 3ab (a + b)$$

= 1456
Or, $(16)^3 - 3ab \times 16 = 1456$

Or, ab =
$$\frac{4096 - 1456}{48}$$

24. (3) The total number of players have a height of less than 8.(3) 141 cm = 1 + 3 + 2

25. (1) Let cost price is 100%

$$\therefore \text{ Selling price} = \frac{4000}{100} \times 87$$

= 3480

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

GENERAL AWARENESS

- 1.(2) Recently, the Ministry of Statistics and Programme Implementation has released Women and Men in India 2022 report. The sex ratio at birth went up by three points to 907 in 2018-20 from 904 in 2017-19. India's sex ratio (females per 1,000 males) is expected to improve to 952 by 2036, up significantly from 943 in 2011.
- 2.(2) 3.(1) 4.(3)
- 5.(1) Vivekananda Rock Memorial is a monument in Kanyakumari.

Ravidas Ji Statue is in Ludhiana.

6.(1) Chanhudaro is only Indus Site with no Citadel. Bronze figurines of bullock cart and ekkas and a small pot suggesting a kink well have been excavated from there. Evidence of ploughed field, wooden furrow, seven fire-altars, bones of camel and two types of burials (Circular grave and rectangular grave) have been found from Kalibanga.

Evidence of unique water management system, Harapan inscription and stadium has been found Dholavira.

7.(2) Socialism is a political philosophy and movement encompassing a wide range of economic and social systems, which are characterised by social ownership of the means of production, as opposed to private ownership. Feudalism is a term used to describe the legal, economic, military, cultural and political customs that flourished in medieval Europe between the 9th and 15th century.

Structural functionalism, is "a framework for building theory that sees society as a complex system whose parts work together to promote solidarity and stability".

(3) The electron configuration of an element describes how electrons are distributed in its atomic orbitals.

The maximum number of electrons that can be accommodated in a shell is based on the principal quantum number (n). It is represented by the formula $2n^2$, where 'n' is the shell number.

- 9.(1) Dravidian Architecture -Chennakesava Temple in Belur, Hoysaleswara temple in Halebidu, and the Kesava Temple in Somanathapura.
- 10.(2) Swami Vivekananda (Narendranath Datta) was born on 12 January 1863 in Kolkata. He died in Belur Math, West Bengal, in 4 july, 1902. He founded Ramakrishna Mission, Advaita Ashrama, Damakrishna Misaian

Ramakrishna Mission Vivekananda College.

11.(3) Pituitary gland - Secretes hormones that regulate body functions
Midbrain - Regulates visual and auditory reflexes
Hindbrain - Controls basic lifesustaining functions

Statue is in 12.(4) Ravi Kumar Dahiya won Gold in Commonwealth Games 2022.

- 13.(4) The Pulitzer Prize is given for achievements in newspaper, magazine and online journalism, literture and musical composition. It was established in 1917. Pulitzer Prize 2022-The award winners include Indian journalists Adnan Abidi, Sana Irshad Mattoo, Amit Dave along with The Washington Post. The late Danish Siddiqui of Reuters photographer has been given this award posthumously. He was assassinated during a conflict between the Taliban and the Afghan army.
- 14.(4)
- 15.(1) The diameter of an atom is on the order of 10-10 m, whereas the diameter of the nucleus is roughly 10-15 m—about 100,000 times smaller.
- 16.(4) Vulnerable Species in india Asian elephant, Bengal tiger, One-horned rhino, Black-necked crane, Ganges river dolphin, Snow leopard, Nilgiri Thar, Red panda.
- 17.(3) Strait of Malacca, waterway connecting the Andaman Sea (Indian Ocean) and the South China Sea (Pacific Ocean). The Cook Strait is a strait that separates the North and South Islands of New Zealand, connecting the Tasman Sea on the west with the Pacific Ocean on the east.
- 18.(2) 2024 ICC Women's T20 World Cup will be played in Bangladesh.
- 19.(2)

20.(3)

- 21.(3) Calcutta High Court was established in 1862.
 Allahabad High Court was established in 1866.
 Andhra Pradesh High Court was established in 2019.
 Telengeng High Court was as
 - Telangana High Court was established in 1954.
- 22.(4)

23.(4)

24.(1) Champions - England Runners-up- Pakistan

Player of the series - Sam Curran Most runs - Virat Kohli

Most wickets - Wanindu Hasaranga

MOSt WICKCLS	- wannuu na	isaranga
25.(3)		
	CITED TIEST	

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

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