

ENGLISH LANGUAGE AND COMPREHENSION

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

EXPLANATION:-

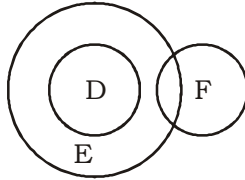
1. (2) The correct word could be 'mined/minted/minced etc.'
 4. (4) 'Main street at' is the correct expression. Main - most important, chief, primary. And It is used to mention a specific time.
 8. (4) Except- not including somebody/something; apart from the fact that (को छोड़कर; इसके सिवा).
 Accept- to agree to take something that somebody offers you (स्वीकार या ग्रहन करना).
 14. (1) Replace 'are' with 'is'. 'The Indian population' is used as a single unit.
 18. (2) Replace 'represent' with 'represents'. Singular Subject(fiscal deficit) takes a singular verb (represents)

WORD	MEANING IN ENGLISH	MEANING IN HINDI
Abandon	Give up	छोड़ देना
Algaecide	A substance for killing algae	शैवाल को मारने के लिए एक पदार्थ
Allegory	A story, play, picture, etc. In which each character or event is a symbol representing an idea or a quality, such as truth, evil, death, etc.; the use of such symbols	रूपक, प्रतीककथा,
Almanac	A publication containing astronomical or meteorological information	पंचांग
Annex	To unite , to join	जोड़ना
Conscription	Compulsory enlistment for military service	भर्ती (सेना में)
Constraint	The state of being checked, restricted, or compelled to avoid or perform some action	बाधा
Egghead	A person with intellectual interests or pretensions	बहुत सोचने वाला व्यक्ति
Fetter	A chain used to restrain a prisoner, typically placed around the ankles.	बेड़ी
Fungicide	Pesticides that kill or prevent the growth of fungi and their spores	फफूंदनाशी
Genial	Pleasant and friendly, convivial	मिलनसार
Incongruous	Strange and out of place; not suitable in a particular situation	बेमेल
Jar	To have a harshly disagreeable or disconcerting effect	निराशाजनक प्रभाव होना
Laconic	Using only a few words to say something	संक्षिप्त
Lacuna	A blank space or a missing part	कमी
Philistine	A person who does not like, understand or enjoy the beauty of art, literature, music, etc.	अशिक्षित, कला, साहित्य, संगीत आदि के सौंदर्य को न समझनेवाला
Prepuce	Foreskin.	त्वचा
Profuse	Given or produced in great quantity	अत्यधिक मात्रा में, प्रचुर
Protract	To extend forward or outward	निकलना (आगे से)
Recklessness	Carelessness, casualness	लापरवाही
Ruthenium	A chemical element	एक रासायनिक तत्व
Sage	A mature or venerable person of sound judgment	समझदार
Spontaneity	Voluntary or undetermined action or movement	स्वच्छंदता

GENERAL INTELLIGENCE & REASONING

- (1) 32, 35, 39, 42, 46, 49, **53**
 $+3 \quad +4 \quad +3 \quad +4 \quad +3 \quad +4$
- (2) Lizard
- (3)
- (4) From equation (i), if interchange 4 and 6,
 We have,
 $8 - 6 \times 3 + 4 \div 2$
 $= 8 - 18 + 2$
 $= -8$
 From equation (ii), if interchange 4 and 6,
 We have
 $6 + 3 \times 4 - 8 \div 2$
 $= 6 + 12 - 4$
 $= 14$
 $\therefore -8$ and 14
- (3) 11
- (3)
- (4) 101, 10201, 10302 \Rightarrow 10302
 $- 101 = 10201$
 $95, 9025, 9120 \Rightarrow 9120 - 95 = 9025$
 Similarly,
 $102, 10404, 10506 \Rightarrow 10506 - 102 = 10404$
- (1) FONT = $(6 + 15) \times (14 + 20) = 714$
 GLUE = $(7 + 12) \times (21 + 5) = 494$
 Similarly,
 JOKE = $(10 + 15) \times (11 + 5) = 400$
- (3) As Ranchi is Capital of Jharkhand, Similarly Dispur is capital of Assam.
- (1) The face opposite to the face showing A will have the letter B.
- (3) A L W A Y S
 $+0 \downarrow +1 \downarrow +2 \downarrow +0 \downarrow -1 \downarrow +2 \downarrow$
 A K Y A X U
 Similarly,
 B E Y O N S
 $+0 \downarrow +1 \downarrow +2 \downarrow +0 \downarrow -1 \downarrow +2 \downarrow$
 B D A O M F
- (3) 1. Thigh
 2. Stomach
 3. Lips
 4. Nose
 5. Skull
- (1) j t m P r s | j t m P r s | j t m p r s | j t m p r s
- (4)
- (3) $5 \# 2 = 25 \Rightarrow (5)^2 = 25$
 $8 \# 2 = 64 \Rightarrow (8)^2 = 64$
 Similarly,
 $11 \# 2 \Rightarrow (11)^2 = 121$

16. (2)



Only Conclusion II follows.

17. (2) $H + I \leftrightarrow K \leftrightarrow J$



K is maternal uncle of L

18. (4) Q M I W T P
 $17 \quad 13 \quad 9 \quad 23 \quad 20 \quad 16$
 $\xrightarrow{-4} \quad \xrightarrow{-4} \quad \xrightarrow{-3} \quad \xrightarrow{-4}$
 O K G Z V R
 $15 \quad 11 \quad 7 \quad 26 \quad 22 \quad 18$
 $\xrightarrow{-4} \quad \xrightarrow{-4} \quad \xrightarrow{-4} \quad \xrightarrow{-4}$

19. (2) $34, 24, 8 \Rightarrow (32 - 24) = 8$

$48, 42, 6 \Rightarrow (48 - 42) = 6$

Similarly,

$56, 50, 6 \Rightarrow (56 - 50) = 6$

21. (4) Nephew

22. (2) $? : 225 \Rightarrow \sqrt{225} = 15 - 4 = 11$

$9 : 169 \Rightarrow 9 + 4 = (13)^2 = 169$

$12 : 256 \Rightarrow 12 + 4 = (16)^2 = 256$

23. (2) $46, 93, 187 \Rightarrow (46 \times 3) + 93 \Rightarrow 185 + 2 = 187$

$123, 247, 495 \Rightarrow (123 \times 2) + 247 \Rightarrow 493 + 2 = 495$

Similarly,

$313, 627, 1255 \Rightarrow (313 \times 2) + 627 = 1253 + 2 = 1255$

24. (2) B and A

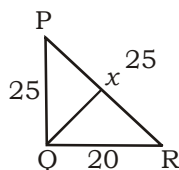
25. (2)

ANSWER KEY

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

QUANTITATIVE APTITUDE

1. (4) We know, from properties of right-angle

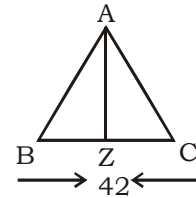


$$\frac{PX}{XR} = \left(\frac{PQ}{QR} \right)^2$$

$$\text{Or, } PX : XR = \left(\frac{15}{20} \right)^2$$

$$\text{Or, } PX : XR = 9 : 16$$

2. (1) As $AB = AC$ and $\angle AZB = 90^\circ$
 From angle bisector theorem,



$$\frac{AB}{AC} = \frac{BZ}{ZC} \Rightarrow BZ = ZC$$

$$\therefore BZ = 21 \text{ cm}$$

3. (1) As multiplication of 6 and 1 gives 6.

From options,

We have only option (1) to have unit digit 6.

4. (4) Let two numbers are x, y
 ATQ,

$$x - y = \frac{20}{100} (x + y)$$

$$\text{Or, } 5x - 5y = x + y$$

$$4x = 6y$$

$$x : y = 3 : 2$$

5. (3) Let marked price of an article = 100

Equivalent discount of 40%

$$\text{and } 20\% = 40 + 20 - \frac{40 \times 20}{100}$$

$$= 60 - 8 = 52\%$$

ATQ,

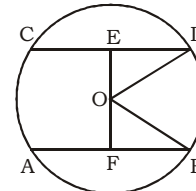
$$52 = 4632$$

$$100 = \frac{4632}{52} \times 100$$

$$100 = 9650$$

Marked price is 9650

6. (1) Let, $OB = OD = OA = OC$
 radius of circle.



OF = Distance of chord AB = 7

OE = Distance of another chord CD = 15

Distance of chord CD = 15

$$AF = FB = \frac{48}{2} = 24$$

As perpendicular from centre divides chord equally]

$$\therefore OA = OB = \sqrt{(24)^2 + (7)^2}$$

= 25

∴ Half of chord CD

= $\sqrt{(25)^2 + (15)^2} = 20$ cm

∴ Length of chord = 40 cm

7. (4) Let cost price of an article = 100 units

∴ Selling price of an article = 120 units

After reducing Rs. 20 of each cost price and selling price

New cost price = 100 units - 20

New selling price = 120 units - 20

∴ Profit = 20 units

Profit percentage

= $\frac{20}{100 \text{ units} - 20} \times 100$

ATQ,

$\frac{20}{100 \text{ units} - 20} \times 100 = 40$

1 unit = .40

∴ Initial cost price = 100 × .40 = 40

8. (4) Ratio of efficiency of A and B = 3 : 1

Total efficiency = (3 + 1) = 4

∴ Total work = (4 × 32) units = 128 units

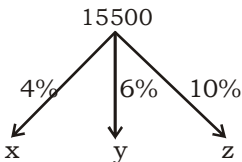
∴ B alone complete = $\frac{128}{1}$ days = 128 days

9. (2) Total GDP of country P (L_1) = 225 + 250 + 200 + 125 + 100 = 900

Total GDP of country (L_2) = 335 + 350 + 175 + 135 + 145 = 1140

∴ Difference = 1140 - 900 = 240

10. (2)



Let, Amount invested in 4% = x

Amount invested in 6% = y

Amount invested in 10% = z

ATQ,

4% x = 6% y = 10% z

2x = 3y = 5z

∴ x : y : z = $\frac{1}{2} : \frac{1}{3} : \frac{1}{5}$

= 15 : 10 : 6 = 31

ATQ,

31 = 15500

1 = 500

∴ 10 = 5000

∴ Amount invested in 6% is 5000.

11. (3) We know, Savings = Income - Exp.

Income of families A, C, E =

(25 + 18 + 10) lakh = 53 lakh

Exp. of families A, C, E = (12 + 10 + 9) lakh = 31 lakh

∴ Savings = (53 - 31) lakh = 22 lakh

12. (3) $\frac{\sin\theta + \cos\theta}{\sin\theta - \cos\theta} + \frac{\sin\theta - \cos\theta}{\sin\theta + \cos\theta}$
 = $\frac{(\sin\theta + \cos\theta)^2 + (\sin\theta - \cos\theta)^2}{\sin^2\theta - \cos^2\theta}$

= $\frac{2(\sin^2\theta + \cos^2\theta)}{\sin^2\theta - \cos^2\theta} = \frac{2}{\sin^2\theta - \cos^2\theta}$

13. (1) Total female teacher in all schools = 240 + 210 + 90 + 60 + 30 = 630

∴ Average of female teachers

(A_1) = $\frac{630}{5} = 126$

Total male teacher in all schools = 180 + 240 + 210 + 150 + 90 = 870

∴ Average of male teachers (A_2)

= $\frac{870}{5} = 174$

∴ $A_2 + A_1 = 174 + 126 = 300$

14. (2) As angle subtended by a chord MN on the circumference of a circle is 90°. So, the chord is diameter.

∴ Length of chord is (12 × 2) cm = 24 cm

15. (4) $\cot 3A = \tan (A - 36^\circ)$
 $\cot 3A = \cot [90^\circ - A + 36^\circ]$

3A = 126 - A

A = 31.5°

16. (3) Six consecutive even numbers are 2n, 2n+2, 2n+4, 2n+6, 2n+8, 2n+10

ATQ,

2n + 2n + 2 + 2n + 4 + 2n + 6 + 2n + 8 + 2n + 10 = 35 × 6

Or, 12n + 30 = 120

Or, 12n = 90

Or, 2n = 30

Smaller number = 30

Bigger number = 40

∴ Sum = 30 + 40 = 70

17. (1) Half of perimeter of rectangular = 30 cm

∴ Perimeter of rectangular = 60 cm

Breadth = x cm

∴ Length = x + 6 cm

ATQ,

2(x + 6 + x) = 60

Or, 2x + 6 = 30

Or, x = 12

Breadth = 12 cm

∴ Length = 18 cm

∴ Area = 12 × 18 cm² = 216 cm²

18. (3) $\frac{7 \times 4 \div 8}{5 \times 25 \div 125} + \frac{5 \times 4 \div 8}{8 \times 4 \div 16} - \frac{7 \times 4 \div 2}{8 \times 7 \div 4}$

= $\frac{7 \times \frac{1}{2}}{5 \times \frac{1}{5}} + \frac{5 \times \frac{1}{2}}{8 \times \frac{1}{4}} - \frac{7 \times 2}{8 \times \frac{7}{4}}$

= $\frac{7}{2} + \frac{5}{4} - 1 \Rightarrow \frac{14 + 5 - 4}{4} \Rightarrow \frac{15}{4}$

19. (4) Total sales of A (J_1) = 150 + 350 + 550 + 450 + 250 = 1750

Total sales of B (J_2) = 950 + 650 + 750 + 150 + 50 = 2750

∴ Difference = $J_2 - J_1$ = 2550 - 1750 = 800

20. (3) Let distance of each trip = x
 Total distance = 4x

Total time = $\frac{x}{720} + \frac{x}{360} + \frac{x}{180} + \frac{x}{90}$

= $\frac{x + 2x + 4x + 8x}{720} = \frac{15x}{720}$

∴ Average speed = $\frac{\text{Distance}}{\text{time}}$ km/h

= $\frac{4x}{\frac{15x}{720}}$ km/h $\Rightarrow \frac{4}{15} \times 720$ km/h = 192 km/h.

21. (4) 9a + 9b + 9c = 81

a + b + c = 81

4ab + 4bc + 4ca = 160

ab + bc + ca = 40

Now,

6a² + 6b² + 6c²

= 6(a² + b² + c²)

= 6[(a+b+c)² - 2(ab + bc + ca)]

= 6[81 - 80] \Rightarrow 6

22. (3) $a + \frac{1}{a} = 8$

Squaring both sides

$a^2 + \frac{1}{a^2} = 62$

Again squaring on both sides.

$a^4 + \frac{1}{a^4} = 3844 - 2$

Or, $a^4 + \frac{1}{a^4} = 3842$

23. (4) $\sin p = \frac{15}{22}$

∴ $\cos p = \sqrt{1 - \sin^2 p} \Rightarrow \frac{\sqrt{259}}{22}$

∴ $\tan p = \frac{\sin p}{\cos p} = \frac{15/22}{\sqrt{259}/22}$

= $\frac{15}{\sqrt{259}}$

24. (1) $a : b : c = 2 : 3 : 5$
 $5b - a + 2c = 115$
Let, $a = 2k, b = 3k, c = 5k$
 $[(5 \times 3) - 2 + (2 \times 5)]k = 115$
 $(15 - 2 + 10)k = 115$
 $k = 5$
 $\therefore B = 3 \times 5 = 15$
25. (2) Total weight of 100 students = (100×34) kg = 3400 kg
Total weight of first 49 students = $(49 \times 34) = 1666$ kg
 \therefore Weight of 50th student = $[3400 - (1600 + 1666)]$ kg = 134 kg

ANSWER KEY

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

GENERAL AWARENESS

- 1.(4) India is the world's largest producer of milk, pulses and Jute. India ranks as the second-largest producer of rice, wheat, sugarcane, groundnut, vegetables, fruit and cotton.
- 2.(4)
39th Belgaum 1924 M.K. Gandhi
45th Karachi 1931 Vallabhbhai J. Patel
51st Haripura 1938 Subhash Chandra Bose
52nd Tripura 1939 Subhash Chandra Bose
- 3.(1)
- 4.(1) Anshu Malik is an Indian freestyle wrestler. She won the silver medal in the women's 57 kg event at the 2021 World Wrestling Championships held in Oslo, Norway.
- 5.(1)
- 6.(2)
- 7.(4) The Union Minister of Agriculture and Farmers Welfare, Narendra Singh Tomar inaugurated the National Seed Congress in 2022 in Gwalior. The State Academy of Agricultural and Allied Sciences (SAAS) was launched.
- 8.(3)

- 9.(1) Champions – Germany
Runner-up – Belgium
Top scorer– Jeremy Hayward
Best player – Germany Niklas Wellen
Best young player – Mustapha – Cassiem
The 2026 Men's FIH Hockey World Cup will be held in Wavre, Belgium and Amstelveen, Netherlands.

- 10.(2)
- 11.(1) Avogadro's number is 6.023×10^{23} .
- 12.(4) 'Got to be There' was Michael Jackson's first album.
Elizabeth Taylor called Michael Jackson the "King of Pop" for the first time.
Climb every mountain" was the first song Michael sang in public.
- 13.(1) Provisions related to Tribal areas in states of Assam, Meghalaya, Tripura, Mizoram - **6th Schedule**
Forms of oaths and Affirmations of offices for elected officials including judges - **3rd Schedule**
Provisions related to Languages - **8th Schedule**

- 14.(2) **C.E.O**
Microsoft – Satya Nadella
Adobe Inc – Shantanu Narayen
Flipkart – Kalyan Krishnamurthy
- 15.(1) 1st July – Doctor's Day
29th Aug – National Sport's Day
- 16.(4) **Jawaharlal Nehru Port**(Nhava Sheva Port) is the second largest container port in India after Mundra Port. It is located on the eastern shores of Arabian Sea in Navi Mumbai. It was opened 26 May 1989.
Mundra Port is located on the northern shores of the Gulf of Kutch.
Paradeep Port was opened on 12 March 1966.
- 17.(2) Seventh part was repealed by the Constitution (Seventh Amendment) Act, 1956.
- 19.(1) Rauf is related to Jammu and Kashmir.
Bhavageete, Jaanapada Geethe are the folk songs of Karnataka.
- 20.(2) Radha Sridhar received the

Sangeet Natak Akademi Award for the year 2018 for her contribution to which Bharatnatyam dance.

- 21.(4) **Sokhta Koh** is a Harappan site on the Makran coast, near the city of Pasni, in the Balochistan province of Pakistan. It was first surveyed by American archaeologist George F. Dales in 1960.

Chanhu-daro is located 130 kilometers (81 mi) south of Mohenjodaro, in Sindh, Pakistan.

Surkotada is located in Rapar Taluka of Kutch. It is a smaller fortified IVC site with 1.4 hectares (3.5 acres) in area.

- 22.(3) The 2022 Vivo Pro Kabaddi League was the ninth season of Pro Kabaddi League. The tournament was played across Bengaluru, Pune and Hyderabad while the playoffs were played in Mumbai. Jaipur Pink Panthers defeated Puneri Paltan in the final match to win their second title.

Most raid points – Arjun Deshwal
Most successful raid - Arjun Deshwal

Most tackle points - Ankush
Most successful tackle - Ankush

- 23.(3) The **retina** is the innermost, light-sensitive layer of tissue of the eye of most vertebrates and some molluscs.

The **pupil** is a black hole located in the center of the iris of the eye that allows light to strike the retina.

The **lens** of the eye, also called the crystalline lens, is an important part of the eye's anatomy that allows the eye to focus on objects at varying distances.

- 24.(2) An object of mass m moving with velocity v has a kinetic energy of $\frac{1}{2}(mv^2)$.

- 25.(1)

ANSWER KEY

1. (4) 2. (4) 3. (1) 4. (1) 5. (1)
6. (2) 7. (4) 8. (3) 9. (1) 10. (2)
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21. (4) 22.(3) 23. (3) 24.(2) 25. (1)