ENGLISH LANGUAGE AND COMPRETENSIONA

1. (3)
2. (1)
3. (4)
4. (2)
5. (4)
6. (1)
7. (2)
8. (1)
9. (1)
10.(3) 11.(3) 12.(1) 13.(1)
10. (1)
11. (1)
12. (3)
13. (3)
14. (3)
15. (4)
16. (4)
17. (2)
18. (3)

## EXPLANATION:-

5. (4) 'Burning' is incorrectly spelt here.
6. (1) Replace 'Its' with 'it's'. Its- Possessive Adjective It's- short form of 'It is'
7. (1) 'Fancy dress pink' with 'fancy pink dress'. Adjective precedes the Noun it qualifies.
8. (1) We need an Adverb 'steadily' here to modify the verb 'increasing'.
wORD
$\begin{array}{ll}\text { Anguish } & \text { Great mental pain or suffering. } \\ \text { Chronicle } & \text { A historical account of events arranged in order of time } \\ \text { Decimate } & \text { To kill large numbers of animals, plants or people in a particular }\end{array}$ area

| Enigmatic | Mysterious |
| :--- | :--- |
| Eulogy | A speech or piece of writing that says good things about somebody |
|  | /something. |

Extempore
A speech made without preparation

Fret To be worried and unhappy about something

| Grumpy | Bad-tempered |
| :--- | :--- |
| Harbour | A place on the coast where ships can be tied up |
| Heathen | A person who does not belong to one of the main world religions |


| Hyperbole | Exaggerated claims, not meant to be taken seriously |
| :--- | :--- |
| Hypergamy | The practice of marrying above one's social status or class |
| Hyperpyrexia | Is a term for a very high fever of over $106.7^{\circ}$ f or $41.5^{\circ} \mathrm{C}$ |


| Hyperreal | Involving or characterized by particularly realistic graphic <br> representation |
| :--- | :--- |
| Layperson | A person without professional or specialized knowledge in a <br> particular subject. |
| Mend | To repair something that is damaged or broken |
| Mendicant | A member of a religious order originally owning neither personal nor <br> community property and living mostly on charitable donations, beggar |
|  | con |

Oblate A layman living in a monastery under a modified rule and without vows मठ में रहने वा ला
Parable A usually short fictitious story that illustrates a moral attitude or नी तिकस $\mathrm{T} T$; शि क्षा T प्रद कह T

Pine A tall evergreen tree that has thin sharp leaves.
Secular
MEANING IN ENGLISH
Pown

## Bad-tempered

A person who does not belong to one of the main world religions
Exaggerated claims, not meant to be taken seriously

Is a term for a very high fever of over $106.7^{\circ} \mathrm{f}$ or $41.5^{\circ} \mathrm{C}$

Involving or characterized by particularly realistic graphic representation
Layperson

Mend
Mendicant

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SET-36

## MEANING IN HINDI

मना' $\bar{\circ}$ याT T
स्मयके क्रमा नु स र इतिहा स
क्ष ${ }^{\prime} ラ \boldsymbol{T}$ विशे णा के पशु अ', पौ ध’ य मनु ष्य' ${ }^{\prime}$ का बड. १ संख्य में मा र ड T लना
रहस स्मय


बिना पू र्व तै य री के बाॅ ला, किय य लिखा गय
किसे विण यमें चिं तित अै र दु खी हा’ ना
बदमिज ज चिड. चिड .
बं दरगा ह
सं सर के मु खध्मा" से
विमु ख० यरि $\overline{\text { ; विध्मी }}{ }^{\text {- }}$
अतिश य` चि $\bar{\imath}$
अतिविवा ह
$106-7^{\circ} \mathrm{F}$ य $41-5^{\circ} \mathrm{C}$ से
अधिक बु खार की स्थि ति
अतिवा स त्रविक

आ म आ दमी

मरम मत करना
भि T क्षु० क

दे वदारय ची ड. का पेड. र्थ निरोे क्ष

GENERAL INTELLIGENGE \& REASONING

1. (1) G

(Odd one)

2. (1) $14,17,970 \Rightarrow(14)^{2}+(17)^{2}=485$ $\times 2 \Rightarrow 970$
$15,23,1508 \Rightarrow(15)^{2}+(23)^{2}=754$
$\times 2 \Rightarrow 1508$
Similarly,
$17,24,1730 \Rightarrow(17)^{2}+(24)^{2}=865$
$\times 2 \Rightarrow 1730$
3. (2)
4. (1) $B \mathrm{D} L \mathrm{~T}=\mathrm{A} \mathrm{9}$ (6) 5
$D$ DLE $=$ S 723
(T) $A D Y=03$ (6) 8

MASB=4819
So, BTO = 962
5. (4).
6. (4) 56 R 8 Q 13 S 42 R 21 P S Putting the value of $P, Q, R, S$ $56 \div 8+13-42 \div 21 \times 5$
$=7+13-2 \times 5$
$=7+13-10=10$
7. (4)
8. (4) The microscope is used to Magnify
Pen is used for writing.
Spade is used for Dig.
The shoot is not used for guns.
9. (2)


Similarly,

10. (1)
11. (1) $18-325 \rightarrow(18)^{2}=324+1=325$ $14-197 \rightarrow(14)^{2}=196+1=197$
$12-145 \rightarrow(12)^{2}=144+1=145$
But,
$24-575 \rightarrow(24)^{2}=576+1=577 \neq 575$
12. (2) 5. Manager
4. Manage

1. Manger
2. Mango
3. Mangrove
4. (4)


5. (2) Masons use a plumb line to do their work.
Similarly, blacksmiths use a saw to do their work.
6. (2)
7. (4)
8. (3)


Similarly,

19. (4) Mango and Bananas are both types of fruit.
20. $(2)(18)^{2}-4=324-4=320$
$(13)^{2}-4=169-4=165 \neq 163$
$(24)^{2}-4=576-4=572$
$(9)^{2}-4=81-4=77$
21. (2) P H D T $\downarrow \quad \downarrow-4 \quad \downarrow-8 \quad \downarrow-12$
P D V H

$\downarrow \quad \downarrow-4 \quad \downarrow-8 \quad \downarrow-12$
$\begin{array}{llll}\mathrm{P} & \mathrm{V} & \mathrm{F} & \mathrm{J} \\ \downarrow & \downarrow-4 & \downarrow-8 & \downarrow-12 \\ \mathrm{P} & \mathrm{R} & \mathrm{X} & \mathrm{X}\end{array}$
22. $(1)(15)^{2}-15=225-15=210$
$(10)^{2}-10=100-10=90$
$(20)^{2}-20=400-20=380$
23. (3) Mare is the female of the horse. Similarly, Sister is the female of the Brother
24. (4) $7-5 \times 2+8 \div 4=17$

Interchanging + and,- 7 and 5

$$
5+7 \times 2-8 \div 4
$$

$=5+14-2=17=$ RHS (Proved)
25. (3)

## Mother

Pawan $\leftrightarrow$ Sister $\longleftrightarrow$ Sister(Girl) $\therefore$ The pointed girl is the sister of Pawan

## ANSWER KEY

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

QUANTITATIVE APTITUDE

1. (2) $\mathrm{A}=\cot 30^{\circ} \tan 60^{\circ} \cot 60^{\circ} \tan 30^{\circ}$
$\Rightarrow A=\sqrt{3} \times \sqrt{3}+\frac{1}{\sqrt{3}} \times \frac{1}{\sqrt{3}}$
$\Rightarrow \mathrm{A}=3+\frac{1}{3}$
$\Rightarrow \mathrm{A}=\frac{10}{3}$
2. (2) For 2 nd case- Principal $=20000$

$$
\text { Rate of interest }=8.5 \%=\frac{17}{200}
$$

Time $=3 y$
$\therefore \mathrm{SI}=20000 \times \frac{17}{200} \times 3$
SI $=5100$
$\therefore$ Amount $=2000+5100=25100$
For $1^{\text {st }}$ case - Principal $=20000$
Rate of interest $=6 \%=\frac{3}{50}$
Time $=3 y$
$\therefore \mathrm{SI}=20000 \times \frac{3}{50} \times 3=3600$
$\therefore$ Amount $=20000+3600$

$$
=23600
$$

$\therefore$ Difference $=25100-23600$
$=1500$
$\therefore$ Value of gain per year $=\frac{1500}{3}$

$$
=500
$$

3. (4) Total sale of bikes $=400+350$
$+550+600+700=2600$
$\therefore$ Avg. Sales of bikes $=\frac{2600}{5}$

$$
=520
$$

Total sales of cars $=900+450$ $+650+800+700=3500$

$$
\begin{aligned}
\therefore \text { Avg sales of cars } & =\frac{3500}{5} \\
& =700
\end{aligned}
$$

$\therefore$ Difference between avg. sales of bikes and cars

$$
P_{1}=(700-520)=180
$$

Total value of bikes and cars $\left(\mathrm{P}_{2}\right)$
$=2600+3500, \mathrm{P}_{2}=6100$
$\begin{aligned} \therefore \text { The value of } & \mathrm{P}_{2}^{2}-\mathrm{P}_{1} \\ = & 6100^{1}-180 \\ = & 5920\end{aligned}$
4. (2) From question we can write $44 \mathrm{CP}=\mathrm{x} \mathrm{SP}$
$\Rightarrow \mathrm{CP}: \mathrm{SP}=\mathrm{x}: 44$
ATQ,
$\frac{44-x}{x} \times 100=10$
$\Rightarrow 10(44-\mathrm{x})=\mathrm{x}$
$\Rightarrow 11 x=440$
$\Rightarrow \quad x=40$
The value of $x$ is 40
5. (4)


$$
\begin{aligned}
\mathrm{OX} & =\sqrt{(15)^{2}+(8)^{2}} \\
= & \sqrt{225+64}=\sqrt{289} \\
& =17 \mathrm{~cm}
\end{aligned}
$$

The value of OX is 17 cm
6. (4) $x-\frac{1}{x}=4$

Squaring both sides,

$$
\begin{aligned}
& x^{2}+\frac{1}{x^{2}}=(4)^{2}+2 \\
\Rightarrow & x^{2}+\frac{1}{x^{2}}=18
\end{aligned}
$$

Cubing both sides,

$$
x^{6}+\frac{1}{x^{6}}=5832-54
$$

$\left[\right.$ As $\left.x^{2}+\frac{1}{x^{2}}=18\right]$
$\Rightarrow \mathrm{x}^{6}+\frac{1}{x^{6}}=5778$
7. (1) If diameter of sphere $=7 \mathrm{~cm}$
$\therefore$ Radius of sphere $=\frac{7}{2} \mathrm{~cm}$
$\therefore$ Total surface area
$=4 \pi \times\left(\frac{7}{2} \times \frac{7}{2}\right) \mathrm{cm}^{2}$
$=4 \times \frac{22}{7} \times \frac{7}{2} \times \frac{7}{2} \mathrm{~cm}^{2}$
$=154 \mathrm{~cm}^{2}$
After cutting it into two halvesTotal surface area $=2 \times$ total surface area of each half
$=2 \times\left[2 \pi r^{2}+\pi r^{2}\right]$
$=2 \times 3 \times \frac{22}{7} \times \frac{49}{4}=231 \mathrm{~cm}^{2}$
$\therefore$ Increased total surface area
$=(231-154) \mathrm{cm}^{2}=77 \mathrm{~cm}^{2}$
8. (2) Total number of workers getting wages of more than 200 $=20+50+15=85$
9. (3) Angel subtended by a chord on the centre of a circle is $180^{\circ}$

So, the chord is the diameter of the circle.

The diameter subtended on the circumference is $90^{\circ}$
10.

$$
\begin{aligned}
& \text { (3) }\left(k+\frac{1}{k}\right)\left(k-\frac{1}{k}\right)\left(k^{2}+\frac{1}{k^{2}}\right) \\
& \left(k^{4}+\frac{1}{k^{4}}\right)
\end{aligned}
$$

$=\left(k^{2}-\frac{1}{k^{2}}\right)\left(k^{2}+\frac{1}{k^{2}}\right)\left(k^{4}+\frac{1}{k^{4}}\right)$
$=\left(k^{4}-\frac{1}{k^{4}}\right)\left(k^{4}+\frac{1}{k^{4}}\right)$
$=k^{8}-\frac{1}{k^{8}}$
11. (2) Time is taken by train to reach $=4 \mathrm{hr} 30 \mathrm{~min}$
$=4 \frac{1}{2} \mathrm{hr}=\frac{9}{2} \mathrm{hr}$
Speed of train $=40 \mathrm{~m} / \mathrm{s}$
$=40 \times \frac{18}{5} \mathrm{~km} / \mathrm{h}=144 \mathrm{~km} / \mathrm{h}$
Total distance cover by train $=$ speed $\times$ time $=144 \times \frac{9}{2} \mathrm{~km}$

$$
=648 \mathrm{~km}
$$

12. (1)
$\begin{array}{lccc} & \text { Previous : Present } \\ \text { Ratio of price }= & 4 & : & 5 \\ \text { Ratio of expenditure }=5 & : & 3\end{array}$
$\therefore$ Ratio of consumption $=\frac{5}{4}: \frac{3}{5}$

$$
=25: 12
$$

$\therefore$ Decreased value $=(25-12)=13$
$\therefore$ Decrease $\%=\frac{13}{25} \times 100=52 \%$
13. (2) $1^{\text {st }}$ vessel Ratio of Juice and water
$=3: 5=8 \times 1=3: 5$ $2^{\text {nd }}$ vessel ratio of Juice and water
$=3: 1=4 \times 2=6: 2$
$\therefore$ Ratio of Juice and Water in bigger vessel $=(6+3):(5+2)$

$$
=9: 7
$$

14. (3) Total no. of erasers sold by $P$ in J and $\mathrm{K}=250+240=490$ Total no. of erasers sold by Q in M and $\mathrm{N}=230+225$

$$
=455
$$

$\therefore$ The ratio of no. of erasers
sold by P and $\mathrm{Q}=490$ : 455
= 98:91
$\therefore$ Statement is incorrect
St- II Total no. of erasers sold by $P=250+240+220+215+205$

$$
=1130
$$

Total no. of erasers sold by $\mathrm{Q}=$ $205+210+260+230+225=1130$ The difference between them is 0 $\therefore$ Statement is correct
15. (3) $a^{3}+b^{3}$
$=(a+b)^{3}-3 a b(a+b)$
$=(6)^{3}-3 \times 4 \times 6=144$
16. (4) The sum of angles made by a chord at the centre and on the major arc of a circle is $180^{\circ}$ We know,
$\angle \mathrm{AOB}=2 \angle \mathrm{ACB}$


As the sum of angles, $180^{\circ}$ only possible angles are $120^{\circ}$ and $60^{\circ}$ respectively. So, the angle made at the centre of the circle is $120^{\circ}$.
17. (2)


Value of $Z \times=\sqrt{(11)^{2}-(8)^{2}} \mathrm{~cm}$

$$
=\sqrt{57} \mathrm{~cm}
$$

and
Value of $\mathrm{JZ}=2 \sqrt{57}$
$\therefore$ Value of $J X=(2 \sqrt{57}+\sqrt{57}) \mathrm{cm}$

$$
=3 \sqrt{57} \mathrm{~cm}
$$

18. (4) Marked price $=480$

After giving discount of 5\%

$$
\begin{aligned}
\text { Selling price } & =\frac{480}{100} \times 95 \\
& =456
\end{aligned}
$$

19. (3) $\tan \theta+\sin \theta=\mathrm{A}$

Squaring both sides
$\tan ^{2} \theta+2 \tan \theta \sin \theta+\sin ^{2} \theta=\mathrm{A}^{2}$
$\tan \theta-\sin \theta=B$
Squaring both sides
$\tan ^{2} \theta-2 \tan \theta \sin \theta+\sin ^{2} \theta=\mathrm{B}^{2}$
Now, $\quad \mathrm{A}^{2}-\mathrm{B}^{2}$
$=\tan ^{2} \theta+2 \tan \theta \sin \theta+\sin ^{2} \theta-$
$\tan ^{2} \theta+2 \tan \theta \sin \theta-\sin ^{2} \theta$
$=4 \tan \theta \sin \theta$
20. (1)

$\operatorname{Sec} A=\frac{A C}{A B}$

$$
=\frac{15}{25}=\frac{3}{5}
$$

21. (1)Total marks of students
$=(80 \times 50)=4000$
$\therefore$ Total marks of passed students
$=(55 \times 50)=2750$
$\therefore$ Total marks of failed students
$=1250$
$\therefore$ Avg. students $=\frac{1250}{30}=41.66$
22. (3) Ratio of time of $X$ and $Y$
$=150: 100=3: 2$

Ratio of efficiency of X and Y $=2: 3$
$\therefore$ Total work $=[(2+3) \times 15]$ unit $\therefore 75$ unit
$\therefore$ Time taken by X to complete
$=\frac{75}{2}$ days $=37.5$ days
23. (4) Total no. of toys sold by shop A,B,C in 1st week
$=20+40+30=90$
Total no. of toys sold by C,D,E
in $2^{\text {nd }}$ week $=20+60+50=130$
$\therefore$ Ratio of no. of toys $=90: 130$
= $9: 13$
24. (1)I : $66 \times \frac{5}{11}>\frac{5}{6} \times 66$

$$
30>55
$$

It is wrong
II : $9 \times \frac{5}{9}>\frac{8}{9} \times 9$ $5>8$
It is wrong.

$$
\begin{gathered}
\text { III : } 30 \times \frac{6}{6}>\frac{4}{5} \times 30 \\
30 \times 24
\end{gathered}
$$

It is correct.
25. (3) 2 digit numbers which are divisible by 9 .
$=18,27,36,45,54,63,72,81,90,99$
$\therefore$ Sum of all numbers $=585$.


## GENERAL AWARENESS

1.(2) Deomali Peak, with an elevation of about $1,672 \mathrm{~m}$, is the highest peak in the state of Odisha.
Phawngpui also known as Blue Mountain, is the highest mountain peak in the Mizo Hills (Lushai Hills) and in the state of Mizoram
Kalsubai is Highest Peak of Maharashtra's Ahmednagar District in Akola Taluka. It is known as The Everest of Maharashtra
2.(1) Legislative procedure, Bicameralism and Rule of law are taken from Britain
3. (1)
4.(3)
5.(2) Byte - 1024 Bytes

Kilobyte (Kb) - 1024 Bytes Megabyte (MB) - 1024 KB Gigabyte (BB) -1024 MB
Terabyte (TB) - 1024 GB
Petabyte (PB) - 1024 TB

Exabyte (EB) - 1024 PB
Zettabyte (ZB) - 1024 EB
Yottabyte (YB) - 1024 ZB
6.(3) Strait-a narrow piece of sea that joins two larger seas Isthmus- a narrow piece of land, with water on each side, that joins two larger pieces of land
7.(3) "The Candlestand" is written by Debeshi Gooptu.
11.(1) Pradhan Mantri Mudra Yojana (PMMY) is a flagship scheme launched by the Government of India to provide financial assistance to micro and small enterprises (MSEs) across the country. Under the scheme, loans up to Rs. 10 lakh are provided to non-corporate, non farm small/micro enterprises for various purposes, including working capital, purchase of machinery and equipment, and infrastructure development.
Pradhan Mantri Garib Kalyan Anna Yojana - for the poor's food security, Each ration card holder will receive 5 kilograms of rice or wheat and 1 kg of dal
Pradhan Mantri Awas Yojana (PMAY) - urban residents with affordable housing through the Pradhanmantri Awas Yojana
12.(1) Rahul Ghandhi- Truth For Youth: Now or Never.
Nitin Gadkari- India Aspires: Redefining Politics of Development
Smriti Irani- Lal Salaam
13.(2)
14. (1) The valency of boron is 3 . Valency of fluorine is 1.
15. (4)
16. (3) Anshu Malik(wrestling) won the Silver medal 2022 Common Wealth Games.
Saurav Ghosal(squash) won Bronze medal in 2022 Common Wealth Games.
17. (2) Neeraj Chopra won Gold in Javline Throw at Tokyo 2020 Olympics.
The Indian men's hockey team won bronze in Tokyo 2020 Olympics.
18.(3) Sushil kumar- Incorporating Small Businesses
Devdutt Pattanaik-7 Secrets of Shiva, 99 Thoughts on Ganesha
19.(2) The Akbarnama was the official chronicle of the reign of

Akbar, the third Mughal emperor. The Ain-i-Akbari is the third volume of Akbar Nama which contains information about the administration of the empire. It was written by Abu'l-Fazl ibn Mubarak.
20.(1) Malleability is the property shown by metals by the virtue of which they can be beaten into thin sheets. Gold (Au) is the most malleable metal.
The ability of metals to be drawn into thin wires is called ductility. Platinum is the most ductile metal.
21.(2) Guru Gobind Singh Ji Airport -Maharashtra
22. (1).
23. (2) 1928 Amsterdam Olympics 1932 Los Angeles Olympics 1936 Berlin Olympics
1948 London Olympics
1952 Helsinki Olympics
1956 Melbourne Olympics
1964 Tokyo Olympics
1980 Moscow Olympics
24.(4) Dadra and Nagar Haveli and Daman and Diu mergered in July 2019.
25.(3) A demand curve is a graphical representation that shows the relationship between the price of a good and the quantity of the good that consumers are willing and able to purchase at that price, holding all other factors constant. It typically slopes downwards, reflecting the law of demand as the price of a good increases, the quantity demanded of that good decreases, and vice versa.
The total revenue curve is a graphical representation that shows the relationship between the quantity of a good sold and the total revenue earned by the seller, holding the price of the good constant. It slopes upwards for normal goods, reflecting the fact that as the quantity sold increases, so does the total revenue earned. For inferior goods, the total revenue curve may slope downwards.

## ANSWER KEY

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