| SET – 4 | ANSWERS WITH EXPLANATION Exam held on : 09/03/20 | 23 05:15 PM | | | |
|---|--|---|--|--|--|
| ENGLISH LANGU | JAGE AND COMPREHENSION (| | | | |
| 1. (3) 10. (4) 19. (3) 1. (3) It's Its | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 3) 9. (4) 3) 18. (1) | | | |
| 2. (3) Ag | gravate' is incorrectly spelt here, means- to make something worse or n | nore serious. (स्थिति को | | | |
| 5. (4) Re 6. (2) 2 nd 10. (4) Pas 14. (2) Re 15. (3) Pre ap | ाड़ देना, बदतर करना या होना, अधिक गभीर बनाना place 'on' with 'in'. 'Good' is followed by 'at'. form of the verb is required to have a parallel structure. The sentence is st Indefinite (Passive formation) is required. place 'produces' with 'produce'. Plural subject (microbes) takes a plural v esent Indefinite Tense is required for a routine action and 'its' a possessiv propriate in the given context. | in the Past Tense. erb (produce) ve adjective is | | | |
| Alien | MEANING IN ENGLISH | MEANING IN HINDI | | | |
| Anomalous Climax | Different from what is normal The highest point | नियमविरूद्ध चरोमोत्कर्ष; पराकाष्ठा | | | |
| Cramp | A sudden, unexpected tightening of one or more muscles | ऐंठन | | | |
| Customary | According to custom; usual | प्रथानुसार, रूढ़िंगत, रिवाजी, सामान्य | | | |
| Damp | A little wet | सीलनभरा, भींगा | | | |
| Derivation | Something that originates from something else : something derived | व्युत्पत्ति | | | |
| Docile | Used about a person or animal) quiet and easy to control | सरलता से नियंत्रण में आने वाला, शांत और विनीत | | | |
| Endemic | Native to a particular area or culture; originating where it occurs. | स्थानिक | | | |
| Knack | Skill or ability to do something | दक्षता | | | |
| Nadir | The lowest point | स्थिति विशेष का सबसे बुरा समय, निचला स्तर | | | |
| Pathology | The medical discipline that provides diagnostic information to patients. | विकृति विज्ञान | | | |
| Resolute | Having or showing great determination | दृढ़, दृढ़ निश्चयी, | | | |
| Ridicule | Mocking ,humiliating , derision | उपहास | | | |
| Vile | Very bad or unpleasant | बहुत खराब या अप्रिय | | | |
| GENERAL INT 1. (3) 39 × 2 42 × 2 Simila | Similarly, $B \Leftrightarrow Y$ $32, 125, 503 \Rightarrow 32 \times 12 \Rightarrow$ $N \Leftrightarrow X$ $32, 125, 503 \Rightarrow 32 \times 12 \Rightarrow$ $N \Leftrightarrow X$ $34 \Rightarrow 84 + 3 = 87$ $384 + 125 \Rightarrow 509 - 6 \Rightarrow 503$ $6.$ $102 : 2$ | (Opp.) (Opp.) $3 \Rightarrow (38 \times 2) + 2 = 78$ $206 \Rightarrow (102 \times 2) + 2$ = 206 | | | |
| 84 × 2 2. (3) S Priya | $= 168 \Rightarrow 168 + 3 = 171$ $\xrightarrow{+2 + 2 + 2 + 2 + 2 + 2}$ $= 168 \Rightarrow 168 + 3 = 171$ $\xrightarrow{+2 + 2 + 2 + 2 + 2 + 2}$ $= 168 \Rightarrow 168 + 3 = 171$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $= 168 \Rightarrow 168 + 3 = 171$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $= 168 \Rightarrow 168 + 3 = 171$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $= 168 \Rightarrow 168 + 3 = 171$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2 + 2 + 2}$ $\xrightarrow{+2 + 2}$ $\xrightarrow{+2 + 2 + 2}$ $\xrightarrow{+2 + 2 + 2}$ $\xrightarrow{+2 + 2}$ $\xrightarrow{+2 + 2}$ $\xrightarrow{+2 + 2 + 2}$ $\xrightarrow{+2 + 2}$ $+2 + 2$ | $\Rightarrow (46 \times 2) + 2 = 94$ i is the capital of the y of Kenya. Similarly, the capital of Norway. | | | |
| 3. (3) 18, 69 + 69 = 12, 45 + 45 = | $\begin{array}{c} \text{Son} \\ 279 \Rightarrow 18 \times 12 \Rightarrow 216 \\ 285 - 6 \Rightarrow 279 \\ 183 \Rightarrow 12 \times 12 = 144 \\ 189 - 6 \Rightarrow 183 \end{array} \begin{array}{c} 9. (4) \\ 10. (1) \text{ Illness} \\ P \text{ B O X Q C} \\ 11. (3) \text{ FAMIL} \end{array}$ | \rightarrow doctor \rightarrow consultation gstore \rightarrow medicine Y * LONG = 24 | | | |
| | 6 | × 4 = 24 | | | |
| KD PU | BLICATION SSC CHSL TIER - I 2022 (45 09 MARCH. 2023, 5:15 PM | SET-04 | | | |

(Number of letters) COUPLE * THE = 18 × 3 = 186 (Number of letters) Similarly, OVER * HOSPITAL = 32 4 × = 32 8 (Number of letters) 12. (2) 8 # 6 = 28 \Rightarrow (8 + 6) × 2 = 28 $7 # 4 = 22 \implies (7 + 4) \times 2 = 11$ Similarly, $9 # 3 = 24 \implies (9 + 3) \times 2 = 24$ 13.(1)14.(1)15. (3) $U \xrightarrow{+1} V \xrightarrow{-2} T \xrightarrow{+4} X$ (Odd) $P \xrightarrow{+1} O \xrightarrow{-2} O \xrightarrow{+3} R$ $Z \xrightarrow{+1} A \xrightarrow{-2} Y \xrightarrow{+3} B$ $F \xrightarrow{+1} G \xrightarrow{-2} E \xrightarrow{+3} H$ 16. (3) Just as a wall is made of bricks, similarly a sack is made of jute. 17. (1) 17, 27, 37, 47, 57, 67, **77** +10+10+10 +10 +10 +10 18. (3) Interchanging, + and -I. $11 - 16 \times 3 \div 4 + 12 = 11$ $11 + 16 \times 3 \div 4 - 12 = 11$ 11 + 12 - 12 = 1111 = 11II. $15 \times 3 - 45 \div 5 + 30 = 28$ 45 - 9 + 30 = 28 $66 \neq 28$ 19. (4) F 20.(4)20 - 18 = 215 - 13 = 214 - 12 = 225 - 19 = 6 (odd) 21. (3) $6 \rightarrow M, 5$ $6 \rightarrow 4, R$ 4 ⇔ M (Opp.) 22.(4) P Q R S +6 -3 +8 -1 ŇŹŔ . V -3 +8 -1 ŔĤŎ В -3 +8 -1 ΗΡΡ +6 -3 +8 -1 Ν ĖΧ 0 23. (2) 24. (4) The yen is the currency of Japan. Similarly - Lira is the currency of Türkiye. 25. (2)

ANSWER KEY 1. (3) 2. (3) 3. (3) 4. (1) 5. (1) 6. (2) 9. (4) 7. (1) 8. (2) 11.(3) 10.(1) 12.(2) 13.(1) 15.(3) 14.(1) 16.(3) 18.(3) 19.(4) 17.(1) 20.(4) 21.(3) 22.(4) 24.(4) 23.(2) 25.(2)QUANTITATIVE APTITUDE 1. (1) Surface area of cube = $6a^2$ The volume of cube = a3According to the question $6a^2 = 384$ $a^2 = 64$ a = 8 $a^3 = 512 \text{ cm}^3$ 2. (4) The total number of books sold by S_1 and S_2 (J₁) 50 + 5 + 40 + 10 + 20 + 60 +15 + 30 + 5 + 25 = 260The difference between the total numbers of books sold by S_1 in all 5 months and total numbers of books sold by S_2 in all 5 months (J_2) (50 + 40 + 20 + (5 + 5) - (5 +10 + 60 + 30 + 25) = 0Then, $J_1 + J_2 = 260 + 0 = 260$ 3. (1)Total number of players participating in game D from all school 92 + 78 + 66 + 88 + 54 + 110 = 488 Total number of players participating in game E from all school 146 + 102 + 82 + 104 + 96 + 118 = 648ATQ, $\frac{488}{648} \times 100 = 75.30\%$ 10.(2)4. (4) Mohit $-10 \xrightarrow{3} 30$ Rohit —15-Efficiency of Mohit and Rohit 3:2Diff. = 1 ATQ, 5 units = 4400 1 units = 880 5. (4) Let cost price = 100% \therefore Selling price = 90% ATQ, $90\% + 8 = (100\% - 5) \times \frac{110}{100}$ Or, 900% + 80 = 1100% - 55Or, 200% = 135 Or, 90% = 60.75 : Original selling price is ₹60.75

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6. (2) The production of refrigerator by A = 300The production of refrigerator by E = 60ATQ, $\frac{300}{600} \times 100 = 500\%$ 300 7. (1) $\sin B - \cos A = 0$ Putting $A = B = 45^{\circ}$ $\sin 45^\circ - \cos 45^\circ = 0$ $\frac{1}{\sqrt{2}} - \frac{1}{\sqrt{2}} = 0$ 0 = 0Then A + B = $45^{\circ} + 45^{\circ}$ = 90° 8. (1) A = $\frac{36 \div 18 \times 5}{36 \div (3 \times 4)} \Rightarrow \frac{10}{3}$ $B = \frac{5 \div 15 \times 5 + 6 \times 2 - 5}{15 \div 5 \times 25 - 2 \times 3 + 6}$ $=\frac{\frac{5}{3}+7}{75}=\frac{26}{225}$ Then, A + B = $\frac{10}{3}$ + $\frac{26}{225}$ 750+26 225 776 225 9. (4) Let numbers are x, x +2, x + 4, x + 6, x + 8, x + 10, x + 12, x + 14, x + 16 As total numbers are odd, middle term is always average of given series. So, average = 7 $OD^2 = OS^2 - DS^2$ OD2 = 262 - 242OD2 = 100OD = 10 cmAgain $OR^2 = OD^2 + DR^2$ $OD^2 = 10^2 + 20^2$ $OR^2 = 100 + 400$ $OR = \sqrt{500}$ $OR = 10\sqrt{5}$ 11. (3) L_1 = Difference between the total sales of A and B in all years = (350 + 550 + 750 +

650 + 450) ~ (1150 + 850 + 950 + 350 + 250) $= 2750 \sim 3550 \Rightarrow 800$ L_2 = The value of average = 550 Then, $L_1 : L_2 = 800 : 550$ = 16 : 11 12. (3) According to the question The ratio of number of Boys & Girls = 1:2The average weight of all students = $\frac{30 \times 2 + 36 \times 1}{3}$ = 32 13. (3) $\tan F = \frac{15}{2}$ 15 $AC^2 = AB^2 + BC^2$ $AC^2 = 15^2 + 82$ AC = 17Then, $\sin F + \cos F = \frac{15}{17} + \frac{8}{17}$ $=\frac{23}{17}$ 14. (3) 20% = $\frac{1}{5}$ Ratio method, **Principal Amount** 5:6 Interest = 1111 units = 4180 1 unit = 380 25 units = 9500 15. (4) 180° D C $CD = 14 \times 2 = 28$ 16. (4) 30 \boldsymbol{z} 16 y Triplet — 34,30,16 We know that

 $ZX \times NY = ZY \times XY$ $34 \times NY = 16 \times 30$ NY = $\frac{240}{17}$ sales of A in all years = $\frac{2750}{5}$ 17. (4) Divisibility rule of 9 \rightarrow Sum of digits must be divisible by 24. (3) $a^4 + \frac{1}{a^4} = 144$ $\frac{5+7+2+x+4+1}{9} = \frac{19+x}{9}$ Then, x = 818. (2) Three numbers are in the ratio = 2:3:5The sum of the largest and the smallest = 5 + 2 = 7 units According to the question 7 units = 9800 1 unit = 1400 The difference of the largest and smallest = 3×1400 = 420019. (4) Let cost price = 100Increased = $100 \times \frac{120}{100} \times \frac{130}{100}$ = 156 Decreased = $100 \times \frac{78}{100} = 78$ The required percentage $=\frac{156-78}{156}$ × 100 = 50% 20. (4) Let marked price = 15Selling price = 8 $\therefore \text{ Cost price} = \frac{8}{80} \times 100 = 10$ \therefore Ratio of marked price and cost price = 15 : 10 = 3 : 221.(2)10 10 From figure RS = RTSo, RT = 10 cm 22. (1) x - y = 3Squaring both sides $(x - y)^2 = 3^2$ $x^2 + y^2 - 2xy = 9$ 29 - 2xy = 92xy = 204xy = 4023. (3) Distance = speed \times time ATO, $(125 + 375) = (81 + 63) \times \frac{5}{18}$

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× time $500 = \frac{144 \times 5}{18} \times \text{time}$ Time = 12.5 seconds $\left(a^2 + \frac{1}{a^2}\right)^2 - 2 = 194$ $a^2 + \frac{1}{a^2} = 14$ Again $\left(a+\frac{1}{a}\right)^2 - 2 = 14$ $a + \frac{1}{a} = 4$ $a + \frac{1}{a} = V$ Then, $a^3 + \frac{1}{a^3} = V^3 - 3V$ Cubing both sides $a^3 + \frac{1}{a^3} = 4^3 - 3 \times 4$ = 64 - 12 = 52 Now. $\frac{a^6+1}{a^3}$ $=\frac{a^3\left(a^3+\frac{1}{a^3}\right)}{a^3}$ $= a^3 + \frac{1}{a^3}$ 25. (4) 12 R Triplet = 13, 12, 5 Then, $\cot P - \tan R \Rightarrow$ $\frac{12}{5} - \frac{12}{5} = \frac{0}{5} = 0$ ANSWER KEY 1. (1) 2. (4) 3. (1) 4. (4) 5. (4) 6. (2) 7. (1) 8. (1) 9. (4) 10. (2) 11. (3) 12. (3) 13. (3) 14. (3) 15. (4) 16. (4) 17. (4) 18. (2) 19. (4) 20. (4) 21. (2) 22.(1) 23. (3) 24.(3) 25. (4)

GENERAL AWARENESS

- 1.(1) 5 June World Environment Day
 4 July - Independence Day USA
 30 July - International Friend-
- ship Day
 2.(2) Italicize text or remove italic formatting- Ctrl+3
 Bold text or remove bold formatting Ctrl+2

To switch to the sixth tab - Ctrl+6

3.(4) **NCRB** was set-up in 1986 to function as a repository of information on crime and criminals so as to assist the investigators in linking crime to the perpetrators. Director - Vivek Gogia Motto - Empowering Indian Po-

lice with Information Technology

- 4.(2) 5.(4)
- 6.(3) PART XI Relations between the Union and the States
 Part X(Sixth Schedule) The Scheduled and Tribal Areas
 Part XII Finance, Property, Contracts and Suits
- 7.(1) **Article 1** India as a 'Union of States'

Article 3 - Formation of new States and alteration of areas, boundaries or names of existing States.

 8.(1) M K Gandhi - Father of the nation
 Jawaharlal Nehru - Chacha Nehru

Lal Bahadur Shastri - Man of Peace

9.(4) First edition - 2004 (Sri Lanka) Latest edition - 2022 (Bangladesh) Current champion - India (7th title) Most runs - Mithali Raj (588)

Most wickets - Neetu David (26)

- 10.(2) Mass: $5.972 \times 1024 \text{ kg}$ Surface area: $510.1 \text{ million km}^2$
- 11.(3) **Ball and Socket joint** Heap and Shoulder

Hinge joints - elbow, knee, interphalangeal (IP) joints of the hand and foot and the tibiotalar joint of the ankle. **Fixed joints**- skull bones, teeth in sockets of jaw, etc.

- 12.(1) Vitamin A, also known as Retinol.
 Iron ores hematite, magnetite, titanomagnetite, and ironstone.
- 13.(1)

14.(2) Bihar has the highest population growth rate as per the Government of India Report 2011-2019. Total population - Around 1.3 billion

> Percentage of the world population -17.71%

> Population density - 464 per sq. km

> Rank in population - 2 Life expectancy at birth - 70.42 years

- 15.(4) Six forms of the classical dances recognised by India on a national level. They are Bharatnatyam(Tamil Nadu), Kathak(Uttar Pradesh), Kathakali(Kerla), Manipuri, K u c h i p u d i (K e r l a), M o h i n i a t t a m (K e r a l a), Sattariya(Assam) and Odissi.
- 16.(4) Basketball 5 Volleyball - 6

18.(1) **1266–1286** - Ghiyas ud din Balban

> **1290–1296** - Jalal ud din Firuz Khilji

1246–1266 - Nasiruddin Mahmud Shah

19.(2) **Rumtek Monastery** - Sikkim **Tawang Monastery** - Arunachal Pradesh

Thikse Monastery - Leh in Ladakh

Tabo Monastery - Himachal Pradesh

Mindrolling Monastery - Dehradun

20.(1) Qualitative Measures that affect the credit qualitatively are Marginal Requirements, Selective Credit Control (SCC's), Moral

> Suasions. Quantitative measures refer to those measures that affect the variables, which in turn affect the overall money supply in the

economy.

Quantitative Measures - Bank rate, Cash Reserve Ratio (CRR), Statuary Liquidity Ratio (SLR), Open Market Operations (OMO).

21.(1) The Permanent Settlement, also known as the Permanent Settlement of Bengal, was an agreement between the East India Company and Bengali landlords to fix revenues to be raised from land. It was concluded in 1793 by the Company administration headed by Charles, Earl Cornwallis.The Cornwallis Code of 1793 divided the East India Company's service personnel into three branches: revenue, judicial, and commercial.

> The Permanent Settlement was introduced first in Bengal and Bihar .These regulations remained in place until the Charter Act of 1833.The other two systems prevalent in India were the Ryotwari System and the Mahalwari System.

22.(3)

- 24.(1) Endemic species is that ecological state of a species where a species is unique to a defined geographical location.
 - Asiatic Lion(Gir Forest), Kashmir Stag (Kashmir Valley) ,Lion-Tailed Macaque (Western Ghats), Purple Frog (Western Ghats)
 - Sangai Deer(Loktak Lake), Nilgiri Tahr(Nilgiri Hills), Pygmy Hog, (Assam),Bronzeback Vine Snake(Western Ghats), Nilgiri Blue Robin(Nilgiri Hills),Malabar Civet(Western Ghats), Anaimalai Gliding,Frog(Anaimalai Hills),NamdaphaFlying Squirrel(Arunachal Pradesh), Indian Giant Squirrel, Bonnet Macaque.

25.(1)

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

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^{17.(3)}

^{23.(4)}