SET – 32	ANSWERS WITH E	XPLANATION	Exam hel	d on : 20/0	03/2023 05:15 PM
ENGLISH LANGUAGE	AND COMPREHENSION				
1. (1) 2	. (1) 3. (2) 4	. (2) 5. (3)	6. (4)	7. (4)	8. (1) 9. (3)
10. (4) 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3. (2) 14. (1) 23 (1) 23 (1)	15.(1)	16. (4) 25. (4)	17. (2) 18. (1)
EXPLANATION	0. (2) 21. (3) 2	2. (1) 23. (1)	24. (1)	23. (4)	
6. (4) Repla	ce 'been' with 'be'.				
'Moda	l verbs Can/could/sha	all/should etc. +	$V_{\rm bf}$ is the corr	rect structur	e.
8. (1) 'Deba	uchery' is incorrectly s	pelt here, mean	s- extreme and	l unreasonal	ble involvement in
16 (4) Repla	cal pleasures.	with first for th	e sake of		
WORD	MEANING IN ENGLISI	MEANING IN HIND			
Absolute	Free or nearly free fro	पूर्ण			
Abundance	A large quantity, plen	ty			प्रचुरता
Arraign	To bring a person to a	a court of law in	order to forma	ally accuse	आरोप लगाना
	him/her of a crime				
Astrology	The study of the posit	tions and mover	nents of the sta	ars and plan	ets ज्योतिष शास्त्र
	and the way that som	e people believe	they affect pe	ople and eve	nts
Concealment	The act of hiding som	छिपाने की क्रिया			
Concurrent	Operating or occurrin	समवर्ती			
Conscience Knowledge of right and wrong and a feeling one should do what is					is अंतरात्मा की आवाज, जमीर
	right				
Drought	A prolonged dry perio	d in the natural	climate cycle	that can occ	ur सूखा
	anywhere				
Dubious	Doubtful				संदिग्ध
Emphatic	Said or expressed in a	(कथन, अभिव्यक्ति आदि)			
					सशक्त, जोरदार
Feast	A meal with plenty of	food and drink			दावत
Flounder	To struggle to move of	r obtain footing			लड़खड़ाना
Genealogy	The study of family lin	nes of ancestors			वंशावली
Gregarious	Tending to associate v	झुण्ड में रहनेवाला			
Lair	A place where you hid	मांद			
Libertarian	A person who believes	मुक्तिवादी			
Malignant	Evil in influence or ef	घातक			
Physiology	Study of body functio	शरीर क्रिया विज्ञान			
Psychology	The scientific study of	: मनोविज्ञान			
Sheer	Used to emphasize th	एकदम			
Steady	Developing, growing o	te नियमित			
Straighten	To make or become st	raight			सीधा करना
Wallow	To roll oneself about i	लोट लगाना			

386

GENERAL INTELLIGENCE & REASONING

- 1. (3) 11 : 1331 \rightarrow (11)³ \rightarrow 1331 $12: 1728 \rightarrow (12)^3 \rightarrow 1728$ $16:4086 \rightarrow (16)^3 \rightarrow 4096$ Not(4086)
 - $13:2197 \rightarrow (13)^3 \rightarrow 2197$
- exactly two sports = 11+14 + 18= 43
- 3. (4) Total age of Sweta, Damini, Supriya = 56 years 3 years ago their age collectively decreases by = 3×39 years Before three years total age of sweta, damini and supriya = 56 -9 = 47 years.
- 4. (3) 12, 24, 72 $\rightarrow \underbrace{\overset{12}{\underset{\times 2}{\xrightarrow{}}}}_{\times 2} \underbrace{\overset{24}{\underset{\times 3}{\xrightarrow{}}}}_{\times 3}$ 16, 32, 96 $\rightarrow \underbrace{\overset{16}{\underset{\times 2}{\xrightarrow{32}}}}_{\times 2} \underbrace{\overset{96}{\underset{\times 3}{\xrightarrow{32}}}}_{\times 3}$ Similarly, 14, 28, 84 $\rightarrow \underbrace{\overset{14}{\underset{\times 2}{\xrightarrow{}}}}_{\times 2} \underbrace{\overset{28}{\underset{\times 3}{\xrightarrow{}}}}_{\times 3}$
- 5. (3) a b <u>s</u>/a b s/a <u>b</u> s/a b <u>s</u>

Snacks

Food

- 6. (2)
- 7. (1)
- 8. (3)

9. (4) 2 6 21 **88** 445 2676 10. (2) 196-2 $\rightarrow \sqrt{196} \rightarrow \frac{14}{7} = 2$ $784-4 \rightarrow \sqrt{784} \rightarrow \frac{28}{7} = 4$ Similarly,

 $3136-8 \rightarrow \sqrt{3136} \rightarrow \frac{56}{7} = 8$

- 11.(3)
- $S \xrightarrow{+1} T$ $U \xrightarrow{-1} V$ 12. (3) S <u>+1</u> T U <u>-1</u> V $N \xrightarrow{+1} O_{Similarly} \xrightarrow{N} \xrightarrow{+1} O$ S <u>-1</u> T R <u>-1</u> S I <u>+1</u>∫J E <u>+1</u> F $T \xrightarrow{+1} U$ $S \xrightarrow{+1} T$

13. (3) Army is a collective noun of soldiers. In the same way, Shoal is a collective noun of Fish.

form of Baby ---- adult 15. (2) Charlies brother's wife is Penny Charlie — (+) = Penny 2. (1) The people who are good at 16. (1) $(23)^2$, $(6)^2$, $(18)^2 \leftarrow (529, 36, 324)$ $(7)^2, (12)^2, (10)^2 \leftarrow (49, 144, 100)$ Similarly, $(17)^2, (2)^2, (32)^2 \leftarrow (289, 4, 1024)$ 17.(1) E D E K A 5 4 5 <u>11</u> 1 add 1 + 1=2 2 1 5 4 5 Similarly, A O R B G 18 V 15 V 1 2 7 add add 6 5 6 9 9 2 7 18. (4) 19. (1) K I O (Odd) +6+320. (2) (Consonants + 2) (Vowels no change) Ε $\begin{array}{c|c} & +2 & +2 & +2 \\ U & V & A & E \end{array}$ $\begin{array}{c|c} & \text{And} & & \\ & \downarrow & \downarrow & & \\ & E & E & N & U \end{array}$ +2 Similarly, Ŏ Ĭ P 21. (4) 4. Gaiety 1. Gain 3. Gainsay 2. Gaiter 5. Gauge 22. (2) 23. (3) Nib is a part of Pen In the same way Room is a part of the house. 24. (1) 25. (4) Statement I - $4 \times 7 + 8 \div 2 - 5 = 14$ Interchanging 5 and 7. 4×5+8÷2-7=14 = 20 + 4 - 7 = 14

14. (2) Except option 2, all are in the

Statement II- $7 + 6 \times 4 - 5 \div 3 = 22$ Interchanging 5 and 7. $5 + 6 \times 4 - 7 \div 3 = 22$ $= 5 + 24 - \frac{7}{3} \Rightarrow 29 - \frac{7}{3}$ $=\frac{80}{3}\neq 22$ Neither statement I nor II correct ANSWER KEY 1. (3) 2. (1) 3. (4) 4. (3) 5. (3) 6. (2) 7. (1) 8. (3) 9. (4) 10. (2) 11. (3) 12. (3) 13. (3) 14. (2) 15. (2) 16. (1) 17.(1) 18. (4) 19.(1) 20. (2) 21. (4) 22.(2) 23. (3) 24.(1) 25. (4) QUANTITATIVE APTITUDE 1. (2)Let, two number are 10x, 13x 30% of first number = 16 $\frac{80}{100} \times 10x = 16$ \Rightarrow (x = 2) $B = 13x \Rightarrow 13 \times 2 = 26$ 50% of B $\Rightarrow \frac{26}{2} = 13$ 2. (2) Ratio of production of company C_1 and C_6 . $\begin{array}{ccc} C_1 & : & C_6 \\ 100 & : & 50 \end{array}$ 2 : 1 (4) Total CP of D, E and F =3. 550 + 750 + 650 = 1950Total SP of E. F and $G \Rightarrow 700 +$ 450 + 650 = 1800Percentage of total CP to SP $=\frac{1950}{1800} \times 100 \Rightarrow 108.33\%$ 4. (4) $\sec\theta \times \sqrt{1-\sin^2\theta}$ $\sec\theta \times \cos\theta = 1$ (3) $3\tan\theta = 5\sin\theta$ 5. $3 \times \frac{\sin\theta}{\cos\theta} = 5 \sin\theta$ $\cos\theta = \frac{3}{\pi}$ 6. (1) 6 year ago total age of (Abhay + wife + child) $= 42 \times 3 = 126$ Present age of (Abhay + wife + child) = 126 + 3 × 6 = 126 + 18 = 144 years Present age of his wife and child = $30 \times 2 + 8 \times 2$ = 60 + 16 = 76

E <u>+1</u> F

= 17 *≠* 14

(387)

20 MARCH. 2023, 5:15 PM SET-32

Age of Abhay = 144 years – 76 years. = 68 years.

- (1) 7 3A 215 is divisible by 11. 7. Then difference of sum of their alternate digit must be zero or 13. (1) Average production of divisible by 11.
- <u>7</u> <u>3</u> <u>A</u> <u>2</u> <u>1</u> <u>5</u> (7 + A + 1) - (3 + 2 + 5) = 08 + A - 10 = 0A = 2If 56B 26 is divisible by 9 then their sum of digit also divisible by 9. $\frac{5+6+B+2+6}{9} \Rightarrow \frac{19+B}{9}$ Then B must be 8. \therefore A = 2 and B = 8 $A + B = 2 + 8 \Rightarrow 10$ (3) p + q = 5, pq = 188. $p^3 + q^3 = (p + q) [(p+q)^2 - 3pq]$ $\Rightarrow 5[5^2 - 3 \times 18]$ $\Rightarrow 5 [25 - 54]$ ⇒ 5 [-29] = -145
- (1) 60% of 870 $\sqrt{1444}$ +18×19 9.
 - $\frac{3}{5} \times 870 38 + 342$ = 522 - 38 + 342 = 826
- 10. (3) $\frac{70}{100}(x-y) = \frac{30}{100}(x+y)$ $\frac{7}{10}(x-y) = \frac{3}{10}(x+y)$ 7 (x - y) = 3(x + y)7x - 7y = 3x + 3y4x = 10y(r 5)

$$\left(\frac{x}{y} = \frac{0}{2}\right)$$

Percentage of x to $y = \frac{2}{5} \times 100$ = 40%

11. (3) $10\% = \frac{10}{100} \Rightarrow \frac{1}{10}$ $\begin{array}{rrrr} R & : & R_{_1} \\ 10 : & 11 \end{array}$

Ratio of area of circle = $\left(\frac{R}{R_1}\right)^2$

$$=\frac{100}{121}$$

Area of circle increased by 21%.

12. (3) $(a+b)^2 = 100$, ab = 25 $a^2 + b^2 + 2ab = 100$

 $a^2 + b^2 + 2ab - 4ab = 100 - 4ab$ $a^2 + b^2 - 2ab = 100 - 4 \times 25$ $(a - b)^2 = 0$ a - b = 0wheat in 5 different states. $\Rightarrow \frac{60+80+62+50+48}{5}$ $\Rightarrow \frac{300}{5} = 60$ tonnes. 14. (3) x = -2, y = 1 $\left(\frac{4}{r}+y\right)\left[\frac{16}{r^2}+y^2-\frac{4y}{r}\right]$ $\left[\frac{4}{-2}+1\right]\left|\frac{16}{4}+1-\frac{4(1)}{(-2)}\right|$ = [-1] [4 + 1 + 2] $= -1 \times 7 = -7$ 15. (4) A 26 cm From Pythagorean theorem. AB = $\sqrt{(26)^2 - (24)^2}$ $AB = \sqrt{676 - 576} = \sqrt{100}$ AB = 10 cm16. (4) 90° angle only make when PQ is diameter of the circle. 90 Ρ Ο PO = 15 cmOQ = 15 cmPQ = 30 cm17. (4) 8% discount = $\frac{-2}{25}$ $SP = \frac{\times 23}{25}$ $MP = \frac{23}{25} = 18400$

- MP = $18400 \times \frac{25}{23} \Rightarrow 20000$
- 18. (2) Total number of car sold in January and April more than the number of car sold in May $= 5400 \times (28\% + 24\% - 12\%)$ 5400 × (52% - 12%)

 $5400 \times \frac{40}{100} \Rightarrow 2160$ 19. (1) Principle = 4000Amount = 4960SI of 4 years = 960SI of 1 year = $\frac{960}{4}$ = ₹240 Rate of interest increased to 1.5 times = $6\% \times \frac{3}{2} = 9\%$ SI for 4 years = $4000 \times \frac{9}{100} \times 4$ = ₹1440 Amount after 4 years = 4000 + 1440 ⇒₹5440 20. (3) Let, the efficiency of A = 10xTotal work = $10x \times 20 = 200x$ Time was taken with 80% efficiency = $\frac{200x}{8x}$ = 25 days. 21. (4) Radius of circular park $=\frac{420}{2}=210$ m Speed in m/sec. = $9 \times \frac{5}{18}$ $=\frac{5}{2}$ m/sec. Circumference of circular park $=2\pi r \Rightarrow 2 \times \frac{22}{7} \times 210 = 1320 \text{ m}$ Time taken to cover circular park = $\frac{5}{2}$ = 528 second = 8.8m 22. (3) Area of square = $(side)^2$ = 1156 (side = 34)Length of rectangle = $2 \times \text{side} \Rightarrow 2 \times 34 = 68 \text{ cm}$ Breath of rectangle = side -14= 34 – 14 = 20 cm Ratio = L : В 68 20 17 : 5 23. (3) Total distance covered = Time × Speed $\Rightarrow 2\frac{1}{6} \times 12 \text{ km/h}$ $\Rightarrow \frac{13}{6} \times 12 \Rightarrow 26 \text{ km}$

Time taken by cycle = $\frac{26}{13} \Rightarrow 2$

- hrs. 120 minutes) 24. (4) $\sec 60^{\circ} + \tan 15^{\circ} - \sin^2 90^{\circ}$ $= 2 + 1 - (1)^2$
 - = 2
- 25. (3) CP = 4500 + 500 (Repair) =₹5000 SP = 4500
 - Loss = ₹500

Loss % = $\frac{500}{5000} \times 100 = 10\%$

ANSWER KEY

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

GENERAL AWARENESS

- 1.(2) Laterite, soil layer that is rich in iron oxide and derived from a wide variety of rocks weathering under strongly oxidizing and leaching conditions. It forms in tropical and subtropical regions where the climate is humid.
- 2.(1)
- 3.(1) 2022–23 Vijay Hazare Trophy Champions - Saurashtra Runners-up - Maharashtra

Player of the series - Ruturaj Gaikwad Most runs - Narayan Jagadeesan

Most wickets - Jaydev Unadkat

- 4.(1)
- 5.(4) Article 17 - abolishes untouchability and forbids its practice in any form.

Article 18 - abolishes titles and prohibits the State from confertitle, ring any except military and academic titles, on any citizen.

Article 15 - prohibits discrimination against any citizen on grounds of religion, race, caste, sex or place of birth.

- Pralhad Joshi Minister of Coal 6.(1)
- Nakki Lake Mount Abu 7.(2) Bhojtal(Upper Lake) - Madhya 15. (1) Sound waves cannot travel in Pradesh
- 8.(2) Ghana Vadya - cymbals, bells, and gongs. Sushira - flute and shehnai. Avanaddha Vadya - sitar and veena.

Tata Vadya - tabla and 16. (1) mridangam 17. (4)

- 18. (3)
- 10.(2) Magnetic Tape is a storage medium for digital data, typically used in magnetic tape drives, and consists of a thin strip of plastic coated with a magnetic material.

Optical Disk is a type of storage media that uses laser light to read and write data, including formats like CD, DVD, and Blu-ray.

Flash Memory is a type of nonvolatile memory that can be electrically erased and reprogrammed, commonly used in portable devices like USB drives, memory cards, and solid-state drives.

- 11.(3) Champaran Agrarian Law was passed by the British Government in 1918 after the Mahatma Gadhi had launched his Champaran historic Satyagraha Movement in 1917 to abolish the forcible cultivation of indigo on the land of farmers. This Bill Was introduced in the Legislative council on 29th November 1917 by W. Maude.
- 12.(3)

9.(1)

13.(4) Original Code refers to the actual programming code written in a specific programming language, that a computer can understand and execute.

> Small Code, also known as microcode, is a low-level code that runs on the microprocessors in a computer, and it is used to implement complex instructions. Naive Code refers to code that is simple and straightforward, but may not be optimized for performance or efficiency.

- 14. (1) Bajrang Punia is wrestler who won Gold in Commonwealth Games 2018, 2022 and 2018 Commonwealth Games Jakarta and the Bronze medal in the 2020 Olympics in Tokyo.
 - vacuum. Sound is a longitudinal wave. The speed of the sound is directly proportional to the density of the medium. Frequency audible sound is from 20Hz to 2000hz.

- 19. (3) First winner Bhalchandra Bhaskar Bhagwatm, Om Prakash Bhardwaj and O. M. Nambiar Dronacharya Award 2022-Jiwanjot Singh Teja (Archery) Mohammad Ali Qamar (Boxing) Suma Siddharth Shirur (Para

Shooting) Sujeet Maan (Wrestling)

- 20. (1) Jaipur Pink City Bhopal - City of Lakes Blue - Jodhpur
- 21. (1) The northern plain has been formed by the interplay of the three major river systems, namely the Indus, the Ganga and the Brahmaputra along with their tributaries. This plain spreads over an area of 7 lakh sq. km. The plain being about 2400 Km long and 240 to 320 Km broad, is a densely populated physiographic division.

Alluvial soil is formed by the deposition of silt by rivers. This soil is generally fertile, rich in minerals like lime, potash, and phosphoric acid. It is porous and loamy. Paddy, sugarcane, banana, and turmeric are cultivated in this soil.

- 22.(1) Startup India launched by Ministry of Commerce and Industry.
- 23.(1) Constitutional struggle of Jinnah and political struggle of founding fathers, the Muslim League played a decisive role in World War II in the 1940s and as the driving force behind the division of India along religious lines and the creation of Pakistan as a Muslim state in 1947.
- 24. (2)
- 25. (3) Chief of Defence Staff (CDS) was formed on 1st January 2020. First holder -General Bipin Rawat

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

SSC CHSL TIER - I 2022

(389)