

COMBINED GRADUTE LEVEL EXAMINATION TIER I – 2022

SSC CGL- Tier-I

Previous Year Paper 01 Dec 2022 Shift 2





Combined Graduate Level Examination Tier I 2022

Roll Number	
Candidate Name	
Venue Name	
Exam Date	01/12/2022
Exam Time	11:45 AM - 12:45 PM
Subject	Combined Graduate Level Examination Tier I 2022

Section : General Intelligence and Reasoning Q.1 Select the option figure which is embedded in the given figure (rotation is NOT allowed). Ans Q.2 If '+' means '÷', '-' means '+', 'x' means '-' and '÷' means 'x', what will be the value of the following expression? $[{(38 \times 23) - (4 \div 3)} + (6 - 3)] \div 2$ Ans **1**.6 **X** 2.3 **X** 3.8 **X** 4. 12



Q.3 Select the option that is related to the fifth letter-cluster in the sam letter-cluster is related to the first letter-cluster and the fourth lett to the third letter-cluster. GAVE: AGEV:: KEPT: EKTP:: ACID:?	e way as the second er-cluster is related	
Ans X 1. CIAD		
× 2. CAID		
✗ 3. ACDI		
✓ 4. CADI		
Q.4 Three different positions of the same dice are shown. Find the	number on the face	
opposite the face showing '2'.		
1 4 5 5 5 4 4 T T T T T T T T T T T T T T		
Figure 1 Figure 2 Figure 3		
Ans 🚀 1. 4		
X 2.5		
X 3.1		
★ 4.3		
Q.5 Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number. 12:16::18:?::24:64 Ans		
★ 3.28		
✓ 4. 36		



Select the figure from among the given options that can replace the question mark Q.6 (?) in the following series. Ans Select the figure from among the given options that can replace the question mark (?) in the following series. Ans



Q.8	A series is given with one term missing. Select the correct alternati ones that will complete the series. NMQR, NQYD, NUGP, NYOB, ?	ve from the given
Ans	X 1. NQRC	
	X 2. NMWN	
	✓ 3. NCWN	
	X 4. NWRQ	
Q.9	Three of the following letter-clusters are alike in some manner and group. Which letter-cluster does not belong to that group?	hence form a
Ans	X 1. TVR	
	X 2. DFB	
	X 3. QSO	
	✓ 4. KGI	
	→ 4. NOI	
	X 2. IPKBWH✓ 3. HWBKPIX 4. HWKBPI	
Q.11	Which of the following letter-clusters will replace the question mar the following letter-cluster series? DW, FU, GT, IR, JQ, ?	k (?) and complete
Ans	X 1. LN	
	✓ 2. LO	
	X 3. MO	
	★ 4. LP	



Q.12	In the following question below are given some statements follow conclusions based on those statements. Taking the given statementhey seem to be at variance from commonly known facts. Read all then decide which of the given conclusion logically follows the g Statements: I. All K are H. II. No S is K. Conclusion: I. No K is S. II. All H are K. 1. Only conclusion II follows 2. Only conclusion I follows	ents to be true even if the conclusions and
	X 3. Neither conclusion follows	
	X 4. Both conclusions I and II follows	
	4. Buti conclusions i and in follows	
Q.13	Select the set in which the numbers are related in the same way a the following set. (NOTE: Operations should be performed on the whole numbers, down the numbers into its constituent digits. E.g. 13 – Operation adding /subtracting /multiplying etc. to 13 can be performed. Brea and 3 and then performing mathematical operations on 1 and 3 is (240, 55, 65) (320, 85, 75)	without breaking s on 13 such as king down 13 into 1
Ans	X 1. (140, 35, 25)	
	× 2. (220, 90, 15)	
	✓ 3. (160, 35, 45)	
	× 4. (200, 5, 105)	
	4. (200, 5, 105)	
Q.14	Read the given statements and conclusions carefully. Assuming the given in the statements is true, even if it appears to be at variance known facts, decide which of the given conclusions logically followstatements. Statements: Some doctors are painters. Some doctors are labours. All the labours are athletes. Conclusions: I. Some labours are painters. II. Some athletes are doctors. III. All the doctors are athletes. IV. Some athletes are painters.	e with commonly
	✓ 2. Only conclusion II follows	
	X 3. Only conclusion III follows	
	X 4. Only conclusions I and II follow	



Select the option in which the given figure is embedded (rotation is NOT allowed). Q.15 Ans Q.16 Select the odd group of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed) **✓** 1. (153 – 151 – 147) Ans **X** 2. (171 –169 –167) X 3. (183 – 181 – 178) **X** 4. (201 –198 –197)



	Which two signs and two numbers should be interchanged in the make it correct? $150 \times 15 + 14 - 9 \div 2 = 6$	following equation to
Ans	X 1.9,2,−, x	
	✓ 2. 9, 2, ÷, ×	
	X 3. 150, 2, ÷, −	
	X 4. 15, 9, +, ÷	
	n a certain code language, 'CYTOSKELETON' is written as 'TYCKSO' 'MALNUTRITION' is written as 'LAMTUNTIRNOI'. How will 'ALLITEI in that language?	DELENOT', RATION' be written
Ans	✓ 1. LLAETITARNOI	
	★ 2. LLAETIATRNOI	
	X 3. LLEATITARNOI	
	X 4. LLAETITRANOI	
	T. T. LEALTHIANOI	
Ans	In a certain code language, 'PSYCHIC' is written as 'YSPCCIH' and as 'TICINEZ'. How will 'MAHATMA' be written in that language? **\times 1. HAMAATM **\times 2. AHMAAMT **\times 3. HAMAAMT **\times 4. HAMAMAT	
	After arranging the given words according to dictionary order, where the fourth's position? 1. Unseen 2. Unseam 3. Unsafe 4. Unsound 5. Unsay	ich word will come at
, 1113	X 2. Unsay	
	X 3. Unseam	
	X 4. Unsound	
	4. Unsound	



	1.21 If A × B means that A is the father of B, A + B means that A is the mother of B, A ÷ B means that A is the brother of B then which of the following expression shows that Q is the son of P?		
Ans	X 1. Q + P × R		
	✓ 2. P + Q x R		
	X 3. R × Q + P		
	X 4. P + Q ÷ R		
Q.22	2 Which of the following interchange of numbers and mathematical signs would make the given equation correct? 30 ÷ 6 x 4 + 15−35 = 25		
Ans	X 1. 25 and 30, x and−		
	X 2. 4 and 6, + and− 🗸		
	3. 25 and 35, × and ÷ X		
	4. 30 and 35, -and ÷		
Q.23	A & B means 'A is the brother of B'. A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B'		
Ans	A # B means 'A is the wife of B'.	owing statements is NOT	
	A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B' A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the follocorrect? X 1. I is the father-in-law of U. 2. A is the maternal grandfather of T. 3. G is the brother of I.	owing statements is NOT	
Ans	A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B' A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the follocorrect? X 1. I is the father-in-law of U. 2. A is the maternal grandfather of T. 3. G is the brother of I.	e same way as the first term is	
Ans	A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B' A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the follocorrect? X 1. I is the father-in-law of U. 2. A is the maternal grandfather of T. X 3. G is the brother of I. X 4. R is the paternal granddaughter of A. Select the option that is related to the fourth term in the related to the second term and the fifth term is related.	e same way as the first term is	
Ans	A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B' A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the follocorrect? X 1. I is the father-in-law of U. 2. A is the maternal grandfather of T. X 3. G is the brother of I. X 4. R is the paternal granddaughter of A. Select the option that is related to the fourth term in the related to the second term and the fifth term is related 35: 21::?:36::40:24	e same way as the first term is	
Ans	A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B' A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the follocorrect? X 1. I is the father-in-law of U. 2. A is the maternal grandfather of T. X 3. G is the brother of I. X 4. R is the paternal granddaughter of A. Select the option that is related to the fourth term in the related to the second term and the fifth term is related 35: 21::?:36::40:24 X 1.65	e same way as the first term is	
Ans	A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B' A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the follocorrect? X 1. I is the father-in-law of U. 2. A is the maternal grandfather of T. X 3. G is the brother of I. X 4. R is the paternal granddaughter of A. Select the option that is related to the fourth term in the related to the second term and the fifth term is related 35: 21::?:36::40:24 X 1. 65 X 2. 50	e same way as the first term is	
Ans	A # B means 'A is the wife of B'. A ^ B means 'A is the mother of B' A + B means 'A is the father of B'. If A + G & I + R @ S @ T # U & V, then which of the follocorrect? X 1. I is the father-in-law of U. 2. A is the maternal grandfather of T. X 3. G is the brother of I. X 4. R is the paternal granddaughter of A. Select the option that is related to the fourth term in the related to the second term and the fifth term is related 35: 21::?:36::40:24 X 1. 65 X 2. 50 3. 60	e same way as the first term is	



Q.25	Q.25 Which of the following numbers will replace the question mark (?) in the given series? 4, 6, 12, 14, 28, 30, ?	
Ans	X 1.62	
	✓ 2. 60	
	X 3.54	
	★ 4.52	
	4.02	
Section	n : General Awareness	
	Which of the given sectors is largely driven by considerations of so	ocial welfare?
Ans	★ 1. Foreign	
	X 2. Co-operative	
	✓ 3. Public	
	X 4. Private	
Q.2	The Hindu college was established in 1791 at	
Ans	X 1. Calcutta	
	X 2. Dacca	
	X 3. Surat	
	✓ 4. Banaras	
Q.3 II Ans	n which of the following languages did Jyotiba Phule write 'Gulamç 1. English	iri' in 1873?
Alla		
	✓ 2. MarathiX 3. Hindi	
	X 4. Gujarati	
0.41	Which of the following are Rabi crops only?	
Q.4 v	vnich of the following are Rabi crops only? 1. Maize and peas	
	✓ 2. Barley and gram	
	X 3. Paddy and cotton	
	X 4. Wheat and jowar	



Q.6 Wi In Ans	 ★ 1. Phytoplankton ★ 2. Zooplankton ★ 3. Fungi ★ 4. Jellyfishes hich of the following cities hosted the 2019 Military World Game International Military Sports Council? ★ 1. Rio de Janeiro, Brazil ★ 2. Bogota, Colombia ★ 3. Wuhan, China ★ 4. Mungyeong, South Korea 	s organised by the
Q.6 Wi	X 3. Fungi X 4. Jellyfishes hich of the following cities hosted the 2019 Military World Gamenternational Military Sports Council? X 1. Rio de Janeiro, Brazil X 2. Bogota, Colombia 3. Wuhan, China	s organised by the
Q.6 Wi In Ans	** 4. Jellyfishes hich of the following cities hosted the 2019 Military World Gamenternational Military Sports Council? ** 1. Rio de Janeiro, Brazil ** 2. Bogota, Colombia ** 3. Wuhan, China	s organised by the
Q.6 Wi	hich of the following cities hosted the 2019 Military World Game International Military Sports Council? 1. Rio de Janeiro, Brazil 2. Bogota, Colombia 3. Wuhan, China	s organised by the
Ans	nternational Military Sports Council? ★ 1. Rio de Janeiro, Brazil ★ 2. Bogota, Colombia ★ 3. Wuhan, China	s organised by the
Ans	nternational Military Sports Council? ★ 1. Rio de Janeiro, Brazil ★ 2. Bogota, Colombia ★ 3. Wuhan, China	s organised by the
Ans	nternational Military Sports Council? ★ 1. Rio de Janeiro, Brazil ★ 2. Bogota, Colombia ★ 3. Wuhan, China	s organised by the
Ans	nternational Military Sports Council? ★ 1. Rio de Janeiro, Brazil ★ 2. Bogota, Colombia ★ 3. Wuhan, China	s organised by the
Ans	★ 1. Rio de Janeiro, Brazil★ 2. Bogota, Colombia★ 3. Wuhan, China	
	✓ 3. Wuhan, China	
	★ 4. Mungyeong, South Korea	
	odul Karim Khan was the exponent of which school of Hindustar	ii Music?
	X 1. Jaipur Gharana	
	X 2. Gwalior Gharana	
	X 3. Delhi Gharana	
	✓ 4. Kirana Gharana	
Q.8 W	ho has taken oath as Bihar Chief Minister for 8th time?	
Ans	🗙 1. Tejaswi Prasad Yadav	
	X 2. Pramod Sawant	
	🗙 3. Anugrah Narayan	
	✓ 4. Nitish Kumar	
0.0 14/1	hich of the following statements about cell cycle is FALSE?	
	1. Preparation of mitosis takes place in G2 phase.	
	2. In M phase, the cell grows physically larger and copies organe	lles.
		elles.
	 2. In M phase, the cell grows physically larger and copies organe 3. In S phase, replication of DNA takes place. 4. In G1 phase, the cell grows physically larger and copies organ 	



A	Shyamji Krishna Varma established India House at	in 1905.	
Ans	X 1. New York		
	X 2. Bombay		
	X 3. Paris		
	✓ 4. London		
244	## D		
Q.11	'Indira Gandhi Shehri Rozgar Guarantee Yojana 2022' has bee state government?	en implemented by which	
Ans	✓ 1. Rajasthan		
	X 2. Himachal Pradesh		
	X 3. Maharashtra		
	X 4. Uttar Pradesh		
Q.12 Ans	Choose the correct pair from the following options. 1. Third Five-year Plan – Rapid industrialisation and basic in	ndustrics	
Ans		ndustries	
	✓ 2. Fourth Five-year Plan - Family planning programme		
	X 3. First Five-year Plan – Mahalanobis model		
	X 4. Second Five-year Plan – Focus on agriculture		
Q.13	Fundamental Duties were added in the Constitution of India	under the leadership of	
Ans	which Prime Minister of India? 1. Narsimha Rao		
Alla	X 2. Charan Singh		
	✓ 3. Indira GandhiX 4. Lal Bahadur Shastri		
	4. Lai Banadur Snastri		
Q.14	Which of the following festivals is celebrated in the month o	of August-September?	
	Which of the following festivals is celebrated in the month o ★ 1. Makar Sankranti	of August–September?	
		of August–September?	
Q.14 Ans	X 1. Makar Sankranti	of August–September?	
	1. Makar Sankranti2. Kite Festival	of August–September?	
	X 1. Makar SankrantiX 2. Kite FestivalX 3. Bikaner Festival	of August–September?	
	X 1. Makar SankrantiX 2. Kite FestivalX 3. Bikaner Festival	of August–September?	



4	Mission Kushal Karmi' was launched to upgrade the skills of cor This programme was launched by the government of	nstruction workers.
Ans	X 1. Gujarat	
	X 2. Haryana	
	X 3. Punjab	
	✓ 4. Delhi	
	first edition of the Youth Olympic Games was held at	
Ans	X 1. Lausanne	
	2. Singapore	
	X 3. Nanjing	
	X 4. Innsbruck	
Q.17	Thorny bushes are found inregion.	
Ans	X 1. mediterranean	
	× 2. polar	
	✓ 3. dry desert	
	X 4. high rainfall	
	•	
0.40	William Charles and Charles an	alata (Carinara)
Ans	Which of the following folk dance forms does NOT belong to the 1. Garba	e state of Gujarat ?
	🗙 2. Dandiya Raas	
	✓ 3. Bidesiya	
	X 4. Vinchhudo	
Q.19	Who among the following classical dancers was rewarded with	the Padma Vibhushan
Q.19 Ans	Who among the following classical dancers was rewarded with a Award in 2003?	the Padma Vibhushan
	Who among the following classical dancers was rewarded with	the Padma Vibhushan
	Who among the following classical dancers was rewarded with the Award in 2003?	the Padma Vibhushan
	Who among the following classical dancers was rewarded with a Award in 2003? ✓ 1. Sonal Mansingh ✓ 2. Kumudini Lakhia ✓ 3. Shovana Narayan	the Padma Vibhushan
	Who among the following classical dancers was rewarded with the Award in 2003?	the Padma Vibhushan
	Who among the following classical dancers was rewarded with a Award in 2003? ✓ 1. Sonal Mansingh ✓ 2. Kumudini Lakhia ✓ 3. Shovana Narayan	the Padma Vibhushan
	Who among the following classical dancers was rewarded with a Award in 2003? ✓ 1. Sonal Mansingh ✓ 2. Kumudini Lakhia ✓ 3. Shovana Narayan	the Padma Vibhushan



Q.20	The SI unit of acceleration is	
Ans	X 1. m ² /s	
	X 2. m²/s²	
	X 3. m/s	
	✓ 4. m/s ²	
	•	
Q 21	The Tamil word 'muvendar' mentioned in the Sangam poems mear	ne
Ans	1. dhamma mahamatta	<u>. </u>
	X 2. Headmen	
	X 3. Rich	
	✓ 4. three chiefs	
	The Vice President of India is elected for a period ofyears.	
Ans	X 1. 6	
	✓ 2.5	
	X 3. 2	
	★ 4.3	
Q.23 \	Which of the following is highest quality coal?	
	X 1. Lignite	
	X 2. Bituminous	
	X 3. Peat	
	✓ 4. Anthracite	
	4. Antinacite	
0.041	All of one the three wests of heatenist flowellows	
Q.24 Ans	What are the three parts of bacterial flagellum? 1. Head, tail and lower body	
Alla		
	X 2. Filament, tail and hook	
	X 3. Basal body, tail and filament	
	4. Filament, hook and basal body	
		1



Q.25	Common name of the compound CaOCl ₂ is		
Ans	✓ 1. bleaching powder		
	X 2. washing soda		
	X 3. baking soda		
	X 4. gypsum		
Section	on:Quantitative Aptitude		
Q.1		1-2+41-2	
	K is a negative number such that $k + k^{-1} = -2$, then what is the value	of $\frac{k^2 + 4k - 2}{k^2 + k - 5}$	
	?	K 1 K-3	
Ans	X 1.7		
	✓ 2. 1		
	X 3.−7		
	X 4.−1		
Q.2	If $\left(x + \frac{1}{x}\right) = 5\sqrt{2}$, then what is the value of $\left(x^4 + x^4\right)$	· ⁻⁴)?	
Ans	X 1. 2542		
	X 2. 2650		
	★ 3. 2452		
	✓ 4. 2302		
Q.3	Q.3 A man rows a boat a certain distance downstream in 9 hours, while it takes 18 hours to row the same distance upstream. How many hours will it take him to row three-fifth of the same distance in still water?		
Ans	★ 1. 9.5		
	✓ 2.7.2		
	X 3. 10		
	★ 4.12		



Study the given chart and answer the following question.

Q.4



What is the central angle corresponding to the production steel by Kerala?

Ans

X		82°
	1	

X 2. 65.8°

X 3. 75.2°

4. 72°

Q.5 A shopkeeper makes a net profit of 44% on selling an article at successive discording and 20%. Find the net profit percentage, if the shopkeeper sells the sam article at a discount of 15%.	

O	6	

What will be the value of $\cos 30^{\circ} \cos 40^{\circ} \cos 50^{\circ} \cos 60^{\circ}$?

Ans

$$\times$$
 1. $\frac{1}{\sqrt{2}}$

$$\times$$
 4. $\sqrt{3}$



1	What is the ratio between the HCF and LCM of the numbers whose product of the numbers is 384?	LCM is 48 and the
Ans	X 1.1:4	
	✓ 2.1:6	
	X 3.1∶3	
	X 4.2:5	
Q.8 ·	The price of a scooter increases successively by10%, 5% and 15%.	What is the total
	percentage in Passe in price of scooter?	
Ans	$\frac{32}{40}$ $\frac{70}{9}$	
	21	
	34 - %	
	∧ 2.	
	$30\frac{11}{40}\%$	
	↑ 3.	
	$36\frac{31}{40}\%$	
	× 4. 40	
Q.9	If areas of similar triangles Δ ABC and Δ DEF are x^2 cm ² and y^2 cm ² respectively, an	ad EF = a cm, then BC (in
Q.9	cm) is:	CONTRACTOR
Ans	y ²	
	\times 1. $\overline{a^2x^2}$	
	у	
	2. <u>ax</u>	
	ax	
	✓ 3. y	
	✓ 3. y	
	_	
	✓ 3. y	
	✓ 3. y	
	✓ 3. y	
	$4. \ \frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati	
	$4. \frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual average of the marks of two students and 19 respectively.	s were taken as 18
	$4. \ \frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual averages.	s were taken as 18
	4. $\frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual averages. 1. 17.43	s were taken as 18
	4. $\frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual averages. 1. 17.43 2. 16.56	s were taken as 18
	4. $\frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual averages. 1. 17.43 2. 16.56 3. 18.68	s were taken as 18
	4. $\frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual averages. 1. 17.43 2. 16.56	s were taken as 18
	4. $\frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual averages. 1. 17.43 2. 16.56 3. 18.68	s were taken as 18
	4. $\frac{a^2x^2}{y^2}$ The average of the marks of 25 students in a class, in an examinati to be 19. Later, the teacher realized that the marks of two students and 19 respectively, instead of 14 and 15. Find the new actual averages. 1. 17.43 2. 16.56 3. 18.68	s were taken as 18



	Simplify $x^9 \times x^5 \times x^{-4} \times x^0 \times x^{-6}$.	
Q.11	Simplify A A A A A A A A .	
Ans	1. x 4	
	2. X ⁻⁴	
	3. X ⁻⁶	
	4. X 6	
	- X	
0.40	Th. 1. (1.1.00) 200 1.000 1.	
Q.12 Ans	The value of (sin30° cos60° - cos30° sin60°) is equal to: 1cos30°	
	✓ 2sin30°	
	X 3. cos30°	
	X 4. sin30°	
Q.13	What is the ratio of the mean proportional between 1.6 and 3.6 and	the third
Ans	proportional of 5 and 8? X 1. 2: 15	
Alis	X 2.5:16	
	✓ 3. 3 : 16	
	X 4. 4 : 15	
Q.14	The difference between the cost price and selling price of a pair of	shoes is Rs.1,200. If
Ans	the profit is 15%, the selling price is: 1. Rs.8,200	
Alis	✓ 2. Rs.9,200	
	X 3. Rs.8,000	
	★ 4. Rs.9,000	
Q.15	A person lent certain sum of money at the annual rate of 25 percen In 6 years the interest amounted to Rs.360 more than the sum lent	t on simple interest. . What is the sum
	lent?	
Ans	X 1. Rs.600	
	X 2. Rs.360✓ 3. Rs.720	
	3. Rs.720 X 4. Rs.540	



Q.16 The side of an equilateral triangle is 12 cm. What is the radius of the circle circumscribing this equilateral triangle? Ans

- 2. $4\sqrt{3}$ cm
- 3. $9\sqrt{3}$ cm
- 4. $5\sqrt{3}$ cm

Q.17	The following table shows the number of different items in different shops and
	their respective selling prices per unit.

Shops	Total No. of	AC : Cooler	Selling Price per unit		
	Items	: Fan	Cooler	AC	Fan
A	5000	4:5:1	8000	25000	8500
В	1800	3:2:4	10000	20000	16000
C	3400	6:4:7	6000	42000	15000
D	3600	4:2:3	12000	32000	8000
Е	4000	5:1:4	8000	26500	12200
F	1210	2:4:5	11000	28000	11100

Find the percentage of total revenue which comes from Cooler from shop E, considering all given items are being sold from shop E and from all the given shops only given three items are being sold. (Rounded off to three decimal places)

Ans

✓ 1. 4.226%

2. 3.516%

× 3. 10.45%

× 4. 8.910%



The following table shows the marks (in percentages) obtained by six students in four different subjects in an

Q.18 examination. Maximum marks in each subject are 100.

Student	SUBJECT				
	SST	PHYSICS	CHEMISTRY	MATHS	
A	92	90	90	80	
В	90	80	85	85	
С	80	80	65	70	
D	85	80	82	75	
Е	80	75	75	85	
F	90	90	90	85	

Answer the following question based on the table:

What is the number of students whose overall percentage obtained is 80% and above?

- 4		٠.
re dell'	-1	Δ

X 2.5

X 3. 2

X 4.3

Q.19 The table given below shows the number of persons participating in a survey from 6 different states.

States	Persons
S1	100
S2	200
S3	400
S4	500
S5	600
S6	800

What is the ratio of number of person participating in a survey from state S3 to the number of person participating in a survey from state S4?

Ans

	$2 \cdot r$
A 11.	٠. ر

X 2.5:4

X 3.4:3

4.4:5

)
	J

Q.20 What is the remainder when 8127 is divided by 8?

Ans X 1. 5

2. 7

X 3. 4

X 4. 6



In how many days will the work be com	k separately in 10, 20 and 40 days, respectively. pleted if A is assisted by both B and C every
third day? 2 Ans 7	
2. 9	
3. $10^{\frac{2}{3}}$	
4. 6	
Q.22 What is $\sin \alpha - \sin \beta + \beta = \sin \frac{\alpha - \beta}{2}$ Ans	
√ 1.	
$2. \ 2\sin\frac{\alpha+\beta}{2}\sin\frac{\alpha-\beta}{2}$	
3. $2\cos\frac{\alpha-\beta}{2}\sin\frac{\alpha+\beta}{2}$	
4. $2\cos\frac{\alpha+\beta}{2}\cos\frac{\alpha-\beta}{2}$	
Q.23 A hemisphere of lead of radius 4 cm is of What is the radius of the base of the co	ast into a right circular cone of height 72 cm. ne?
Ans X 1. 1.63 cm	
X 2.1.35 cm	
✓ 3. 1.33 cmX 4. 1.45 cm	
• • • • • • • • • • • • • • • • • • • •	
Q.24 If the angles of a triangle are (x – 46) dewind what is the value of 2x?	grees, (x + 96) degrees and 8x degrees, then
Ans X 1. 15 degrees	
X 2. 24 degrees	
3. 26 degrees4. 13 degrees	
₹\ 4. 13 degrees	
	l l



Q.25	O is the centre of this circle. Tangent drawn from a point P, to PQ = 24 cm and OQ = 10 cm, then what is the value of OP?	
Ans	X 1. 26 cm	
	X 2.52 cm	
	✓ 3. 13 cm	
	X 4.15 cm	
Section	on : English Comprehension	
Q.1	Select the option that expresses the given sentence in passiv	re voice.
	Priya washes her clothes in the evening.	
Ans	X 1. The clothes was washed by Priya in the evening.	
	X 2. The clothes is washed by Priya in the evening.	
	3. The clothes are washed by Priya in the evening.	
	X 4. The clothes were washed by Priya in the evening.	
	Select the option that contains a grammatical error in the under the lit would be impossible for them to continue living in this worlexactly what fate had it store for them.	ld if each of them knew
	It would be impossible for them to continue living in this worl	Id if each of them knew orld if each of them knew orld if each of them knew orld if each of them knew
	It would be impossible for them to continue living in this work exactly what fate had it store for them. 1. It would be impossible for them to continue living in this work exactly what fate had it store for them. 2. It would be impossible for them to continue living in this work exactly what fate had it store for them 3. It would be impossible for them to continue living in this work exactly what fate had it store for them. 4. It would be impossible for them to continue living in this work exactly what fate had it store for them.	Id if each of them knew orld if each of them knew orld if each of them knew orld if each of them knew
Ans	It would be impossible for them to continue living in this work exactly what fate had it store for them. 1. It would be impossible for them to continue living in this work exactly what fate had it store for them. 2. It would be impossible for them to continue living in this work exactly what fate had it store for them 3. It would be impossible for them to continue living in this work exactly what fate had it store for them. 4. It would be impossible for them to continue living in this work exactly what fate had it store for them.	Id if each of them knew orld if each of them knew orld if each of them knew orld if each of them knew
Ans	It would be impossible for them to continue living in this work exactly what fate had it store for them. 1. It would be impossible for them to continue living in this work exactly what fate had it store for them. 2. It would be impossible for them to continue living in this work exactly what fate had it store for them 3. It would be impossible for them to continue living in this work exactly what fate had it store for them. 4. It would be impossible for them to continue living in this work exactly what fate had it store for them.	Id if each of them knew orld if each of them knew orld if each of them knew orld if each of them knew
Q.3	It would be impossible for them to continue living in this work exactly what fate had it store for them. *\times 1. It would be impossible for them to continue living in this work exactly what fate had it store for them. *\times 2. It would be impossible for them to continue living in this work exactly what fate had it store for them *\times 3. It would be impossible for them to continue living in this work exactly what fate had it store for them. *\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. *\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. *\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them.	Id if each of them knew orld if each of them knew
Q.3	It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 1. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 2. It would be impossible for them to continue living in this work exactly what fate had it store for them **\times 3. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. **\times 4. It would be impossible for them to contin	Id if each of them knew orld if each of them knew
Ans	It would be impossible for them to continue living in this work exactly what fate had it store for them. X 1. It would be impossible for them to continue living in this work exactly what fate had it store for them. X 2. It would be impossible for them to continue living in this work exactly what fate had it store for them X 3. It would be impossible for them to continue living in this work exactly what fate had it store for them. X 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. Select the most appropriate option to fill in the blank. The doctor directed the nurse to administer an	Id if each of them knew orld if each of them knew
Ans	It would be impossible for them to continue living in this work exactly what fate had it store for them. X 1. It would be impossible for them to continue living in this work exactly what fate had it store for them. X 2. It would be impossible for them to continue living in this work exactly what fate had it store for them X 3. It would be impossible for them to continue living in this work exactly what fate had it store for them. X 4. It would be impossible for them to continue living in this work exactly what fate had it store for them. Select the most appropriate option to fill in the blank. The doctor directed the nurse to administer anm X 1. official X 2. eminent	Id if each of them knew orld if each of them knew



Q.4	Select the option that can be used as a one-word substitute for the words.	given group of
Ans	A piece of a living tissue or plant that is transplanted surgically 1. Gratis	
	X 2. Gourmet	
	X 3. Gracious	
	✓ 4. Graft	
Q.5	Select the correct active form of the given sentence. The clothes will be delivered by the shop on Monday.	
Ans	★ 1. The shop will be delivering the clothes on Monday.	
	2. The shop will deliver the clothes on Monday.	
	$ ilde{ imes}$ 3. The shop would be delivering the clothes on Monday.	
	X 4. The shop would deliver the clothes on Monday.	
Ans	X 1. underratedX 2. kindX 3. problematic✓ 4. serious	
Q.7 S	Sentences of a paragraph are given below in jumbled order. Arrangthe correct order to form a meaningful and coherent paragraph. A. A panther is reported to have broken into a house yesterday in shelter. B. The villagers heard his cries and ran to the house but the scare away through the window by then. C. It secretly slouched into a room where a young man named Joh who suddenly woke up and realised that the beast was roaming a D. Just as the panther was about to leap on him, he swiftly shot o closet.	search of food and d animal had run nny was sleeping, round his bed.
	X 2. BDCA	
	✓ 3. ACDB	
	★ 4. DCAB	



Q.8	Select the INCORRECTLY spelt word.	
Ans	✓ 1. Peircing	
	X 2. Sleek	
	X 3. Pie	
	× 4. Itch	
	4. IICH	
Q.9	Select the most appropriate option to fill in the blank.	
	If you try to do something every day you willprogress.	
Ans	★ 1. hold	
	X 2. get	
	√ 3. make	
	X 4. catch	
0.40	Calcat the meet annuantiate armanym of the mirror ward	
Q.10	Select the most appropriate synonym of the given word.	
	Competent	
Ans	X 1. Complex	
	X 2. Poor	
	✓ 3. Capable	
	X 4. Beginner	
Q.11	Choose the correct meaning of the given idiom.	
١.	In weal and woe	
Ans	X 1. In sad and gloomy days	
	X 2. In happiness and good times	
	3. In prosperity and adversity	
	X 4. In despair and failure	
Q.12	Select the most appropriate synonym of the given word.	
	Announce	
Ans	X 1. Denounce	
	X 2. Secret	
	X 3. Hide	
	✓ 4. Advertise	
1		



	3 Rearrange the parts of the sentence in correct order. While physical movement P. activities may not require physical Q. is important for children, all learning R. the part of teachers and students S. movement and facial expressions on	
Ans		
	X 2. RSPQ	
	X 3. QSRP	
	✓ 4. QPSR	
Q.14	4 Select the most appropriate meaning of the given idiom.	
	A green horn	
Ans	1. Uneducated person	
	2. Inexperienced person	
	X 3. Clever person	
	X 4. Skilled person	
Ans	He said that something might be missing in there. 1. He said, "Something may be missing in here." 2. He said, "Something had to be missing in there." 3. He said, "Something is been missing in here." 4. He said, "Something could be missing in here."	
	6 Select the sentences that contains no spelling errors.	
Ans	X 1. Many communities in the world still feel that their voices and position had dissenfranchised.	as been
	2. Many communities in the world still feel that their voices and position had dysenfranchised.	as been
	3. Many communities in the world still feel that their voices and position had dysenfrenchized.	as been
	✓ 4. Many communities in the world still feel that their voices and position had disenfranchised. ✓/ 1. Many communities in the world still feel that their voices and position had been franchised. ✓/ 2. Many communities in the world still feel that their voices and position had been franchised. ✓/ 3. Many communities in the world still feel that their voices and position had been franchised. ✓/ 3. Many communities in the world still feel that their voices and position had been franchised. ✓/ 3. Many communities in the world still feel that their voices and position had been franchised. ✓/ 3. Many communities in the world still feel that their voices and position had been franchised. ✓/ 3. Many communities in the world still feel that their voices and position had been franchised. ✓/ 3. Many communities in the world still feel that their voices and position had been franchised. ✓/ 3. Many communities in the world still feel that their voices are the world still feel that the world still feel the world still feel the world still feel that the world still feel the world still	as been



Q.17	Sentences of a paragraph are given below in jumbled order. Arra the correct order to form a meaningful and coherent paragraph.	inge the sentences in
	 A. They also wore felt caps to cover their ears. B. They wore trousers tucked into leather boots. C. This place was famous for its skilful archers and horsemen. D. In the 5th and 4th centuries BC, today's south Ukraine was known. 	own as Scythia.
Ans	★ 1. BCDA	
	★ 2. CBDA	
	✗ 3. ABCD	
	✓ 4. DCBA	
Q.18	3 The following sentence has been split into four segments. Identi contains a grammatical error.	ify the segment that
	He used to reply / that the only place / for which he went / was th	ne town library.
Ans	,	
	2. for which he went	
	X 3. He used to reply	
	X 4. that the only place	
0.10	Select the most appropriate synonym of the underlined word in	the given contance
Q.13		
Ans	The <u>sporadic</u> instructions of the invigilators distracted the exam 1. Continuous	linee.
Alis	× 2. Indirect	
	X 3. Repetitive	
	•	
	✓ 4. Occasional	
Q.20	Select the most appropriate option that can substitute the under given sentence.	lined segment in the
	_	
	Rajan is having three brothers and three sisters.	
Ans		
Ans		
Ans	X 1. Rajan has been having	
Ans	★ 1. Rajan has been having✓ 2. Rajan has	
Ans	★ 1. Rajan has been having★ 2. Rajan has★ 3. Rajan was having	
Ans	★ 1. Rajan has been having★ 2. Rajan has★ 3. Rajan was having	
Ans	★ 1. Rajan has been having★ 2. Rajan has★ 3. Rajan was having	



——



	Comprehension:
	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.
	The modern-day student is extremely 1with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2affinity to various platforms on the internet. However, one skill that has been 3affected is listening skills. They are extremely poor 4listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5on the planet.
	SubQuestion No : 23
Q.23	Select the most appropriate option to fill in blank number 3.
Ans	√ 1. thoroughly
	X 2. through
	X 3. holistically
	X 4. daily
	Comprehension:
	Comprehension: In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.
	In the following passage some words have been deleted. Fill in the blanks with the help of the
	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely 1 with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in
Q.24	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely 1 with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 on the planet.
Q.24 Ans	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely 1with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2affinity to various platforms on the internet. However, one skill that has been 3affected is listening skills. They are extremely poor 4listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 on the planet. SubQuestion No: 24
	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely 1with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2affinity to various platforms on the internet. However, one skill that has been 3affected is listening skills. They are extremely poor 4listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 on the planet. SubQuestion No: 24 Select the most appropriate option to fill in blank number 4.
	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely 1 with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 on the planet. SubQuestion No: 24 Select the most appropriate option to fill in blank number 4.
	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely 1 with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 on the planet. SubQuestion No: 24 Select the most appropriate option to fill in blank number 4. 1. passive
	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number. The modern-day student is extremely 1 with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 on the planet. SubQuestion No: 24 Select the most appropriate option to fill in blank number 4. X 1. passive 2 2. active 3 3. distinctive



	Comprehension:
	In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.
	The modern-day student is extremely 1 with technology. They do read quite a bit because of social media. While their writing skills may not be top notch, they do write, courtesy 2 affinity to various platforms on the internet. However, one skill that has been 3 affected is listening skills. They are extremely poor 4 listeners. If this issue is not addressed, what we may be heading to in the future is a huge chunk of people across the globe, with poor skills of listening, and a huge number of passive listeners. Researchers say that listening is the prime ingredient for empathy and the world will be in extreme poverty in terms of number of 5 on the planet.
	SubQuestion No : 25
Q.25	Select the most appropriate option to fill in blank number 5.
Ans	X 1. sympathisers
	√ 2. empathisers
	★ 3. donors
	X 4. characters