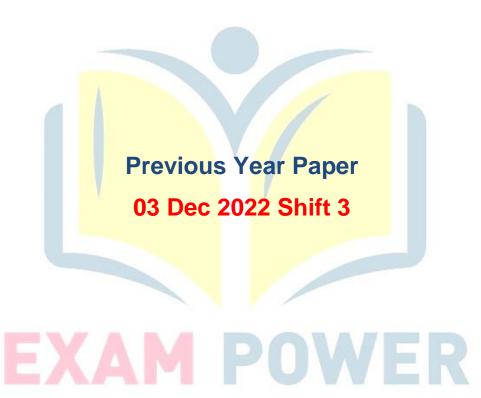


COMBINED GRADUTE LEVEL EXAMINATION TIER I – 2022

SSC CGL- Tier-I





Combined Graduate Level Examination Tier I 2022

Roll Number	
Candidate Name	
Venue Name	
Exam Date	03/12/2022
Exam Time	2:30 PM - 3:30 PM
Subject	Combined Graduate Level Examination Tier I 2022

Q.1	Which of the following interchange of mathematical signs would make the given equation correct? $20 \div 4 \times 8 + 16 = 15 = 11$
Ans	X 1. −, ÷
	X 2. +, −
	✓ 3. x, ÷
	X 4. +, ×
Q.2	A + B का अथ' है िक 'A , B के िपता है' A * B का अथ' है िक 'A , B की बहन है' A % B का अथ' है िक 'A, B की पु ी है' A \$ B का अथ' <mark>है िक</mark> 'A , B का पु है' पिद L % M + N * O \$ P है, तो L का P से ा संबंध है?
Ans	X 1. बहन √ 2. पु ी
	★ 3. माता
	🗙 ४. सास
0.0	Which of the following numbers will replace the question mark (?) in the given series?
Q.3	which of the following numbers will replace the question mark (:) in the given series: $\frac{1}{2}, \frac{3}{4}, ?, \frac{5}{4}$
Ans	✓ 1. 1
	1
	2. 4
	\times 3. $\frac{3}{4}$
	$\times 2. \frac{1}{4}$ $\times 3. \frac{3}{4}$ $\times 4. \frac{2}{3}$



0.4 Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term. 25:254::31:?:49:456 X 2 314 X 3 297 X 4 961 0.5 In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language? Ans		
X 2.314 X 3.297 X 4.981 Q.5 In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language?' Ans	Q.4	related to the first term and the sixth term is related to the fifth term.
X 3. 297 X 4. 961 Q.5 In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language? Ans	Ans	√ 1. 312
Q.5 In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language? Ans		X 2. 314
Q.5 In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language? Ans		X 3. 297
Q.5 In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language? Ans		★ 4.961
Ans ### 1.66 Ans ### 2.59 ### 3.64 ### 4.55 C.6		
Ans ### 1.66 Ans ### 2.59 ### 3.64 ### 4.55 C.6		
Ans ### 1.66 Ans ### 2.59 ### 3.64 ### 4.55 C.6		
Ans ### 1.66 Ans ### 2.59 ### 3.64 ### 4.55 C.6		
X 2. 59 X 3. 64 X 4. 55 Q.6 What should come in place of the question mark (?) to complete the following letter series? F, E, I, G, L, I, O, ? Ans X 1. I X 2. J X 3. L 4 A. K Q.7 Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1 - Pardoner 2 - Parenthetical 3 - Parental 4 - Pardon 5 - Parentla 4 - Pardon 5 - Parentlesis Ans X 1. 1, 4, 3, 2, 5 X 2. 4, 1, 3, 5, 2	Q.5	In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language?
Q.5 What should come in place of the question mark (?) to complete the following letter series? F. E. I. G. L. I., O. ? Ans X 1. I X 2. J X 3. L 4 4. K Q.7 Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1- Pardoner 2- Parenthetical 3- Parental 4- Pardon 5- Parenthesis Ans X 1. 1, 4, 3, 2, 5 X 2. 4, 1, 3, 5, 2	Ans	√ 1. 66
Q.6 What should come in place of the question mark (?) to complete the following letter series? F. E. I. G. L. I. Q. ? Ans X 1. I X 2. J X 3. L 4 4. K Q.7 Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1- Pardoner 2- Parenthetical 3- Parental 4- Pardon 5- Parenthesis Ans X 1. 1, 4, 3, 2, 5 X 2. 4, 1, 3, 2, 5 X 2. 4, 1, 3, 5, 2		X 2.59
Q.6 What should come in place of the question mark (?) to complete the following letter series? F, E, I, G, L, I, O, ? Ans X 1.1 X 2. J X 3. L 4 4. K 3. L 2 Parenthetical 3. Parental 4- Pardon 5- Parenthesis Ans X 1. 1, 4, 3, 2, 5 X 2. 4, 1, 3, 2, 5 X 2. 4, 1, 3, 5, 2		X 3. 64
Series? F, E, I, G, L, I, O, ? Ans		★ 4.55
Series? F, E, I, G, L, I, O, ? Ans		
Series? F, E, I, G, L, I, O, ? Ans		
Series? F, E, I, G, L, I, O, ? Ans		
Series? F, E, I, G, L, I, O, ? Ans		
appear in an English dictionary. 1- Pardoner 2- Parenthetical 3- Parental 4- Pardon 5- Parenthesis Ans		F, E, I, G, L, I, O, ? X 1. I X 2. J X 3. L
appear in an English dictionary. 1- Pardoner 2- Parenthetical 3- Parental 4- Pardon 5- Parenthesis Ans		
#N 4. 1, 4, 0, 0, 2		appear in an English dictionary. 1- Pardoner 2- Parenthetical 3- Parental 4- Pardon 5- Parenthesis ★ 1. 1, 4, 3, 2, 5 ★ 2. 4, 1, 3, 2, 5 ★ 3. 4, 1, 3, 5, 2
		↑ 4. 1, 4, 3, 5, ∠

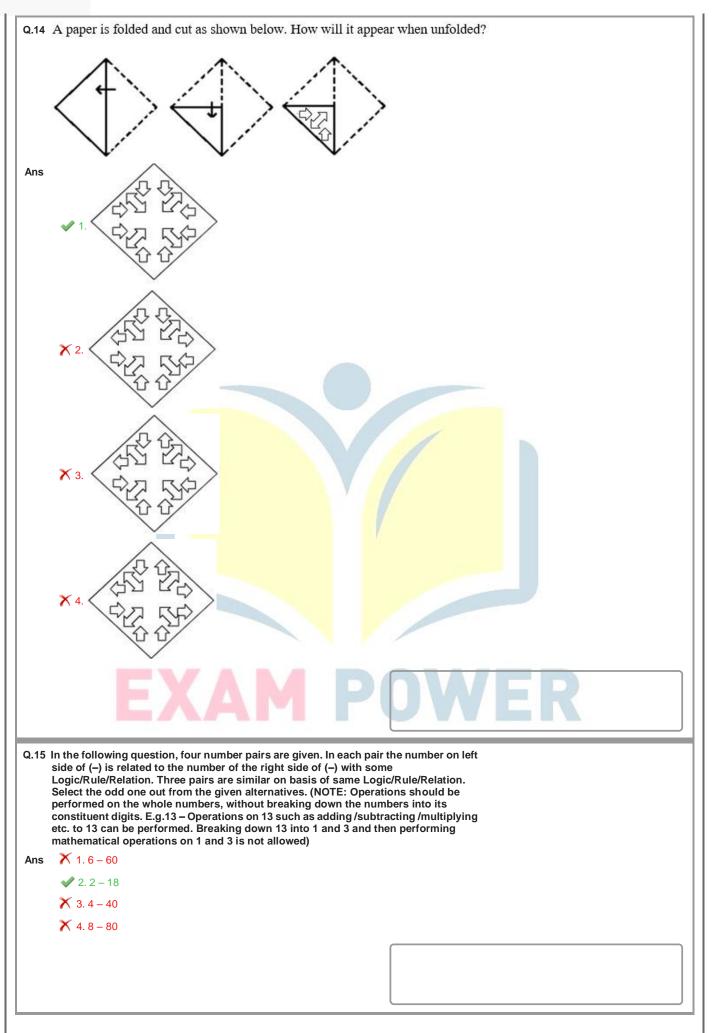


Q.8	Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term. 11: 94:: 23: ?:: 18: 150	
Ans	✓ 1. 190	
	X 2. 199	
	X 3. 129	
	X 4. 109	
Q.9	Based on the position in the English alphabetical order, three of the following letter- clusters are alike in some manner and one is different. Select the odd letter-cluster.	
Ans	X 1. IGMJ	
	✓ 2. SPVT	
	✗ 3. DBHE	
	X 4. NLRO	
_		_
	Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation. 25 * 4 * 6 * 2 * 17	
Ans	X 1. −, +, ×, =	
	X 2.+, −, =, +	
	X 3. +, −, ÷, =	
	√ 4. +, -, ×, =	
Q.11	Select the set in which the numbers are related in the same way as are the numbers of the following set.	
	(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). (0.20, 5, 25)	
	(0.20, 3, 23)	
Ans	★ 1. (0.240, 4, 16)	
	X 2. (0.143, 6, 36)	
	X 3. (0.056, 18, 289)	
	A . (2.222 to 222)	
1	√ 4. (0.063, 16, 256)	
	4. (0.063, 16, 256)	
	4. (0.063, 16, 256)	
	4. (0.063, 16, 256)	

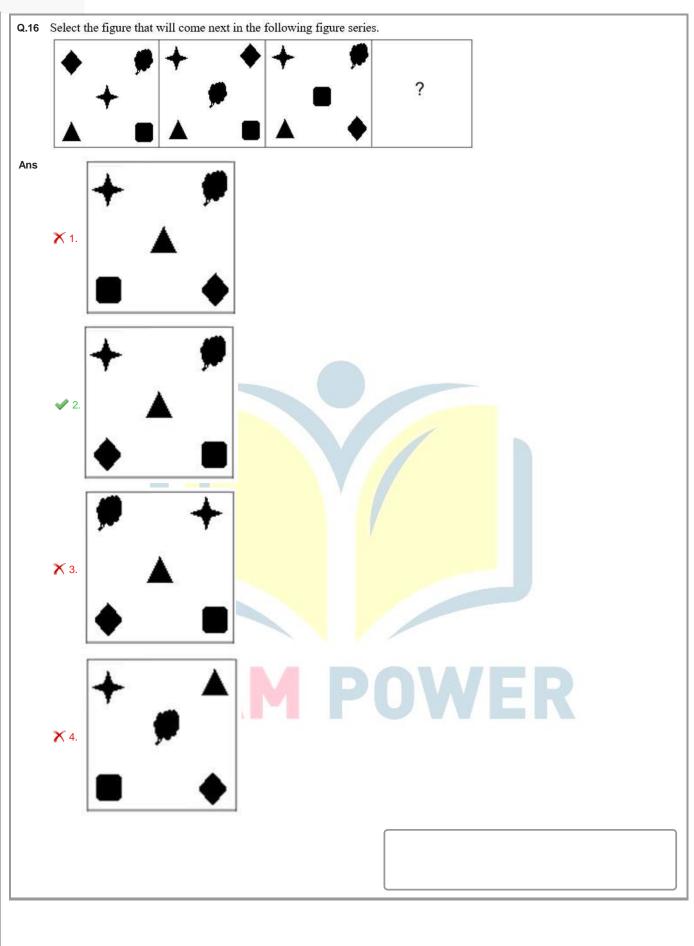


	Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: Some pens are books. All books are compasses. Some compasses are pins. Conclusions: I. Some compasses are pens. III. All compasses are pens. III. Some pins are books. X 1. Only conclusions I and II follow X 2. Only conclusions I and IV follow A 0. Only conclusions I and IV follow A 0. Only conclusions III and IV follow
Q.13	Select the figure that will come next in the following figure series
Q.13	Select the figure that will come next in the following figure series. X1. X2. AMPOWER











Ans × 1.
X 1.
X 2.
★ 3.
4 4.
Q.18 Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown below.
THANKFUL
THANKIFUI.1× and
THANKFUL ² THNAKFUL ²
THNAKFIUL PARTING THNAKFIUL PARTING THINAKFIUL PART
Q.19 If P ÷ Q means that P is the mother of Q, P × Q means that P is the father of Q, P – Q means that P is the sister of Q, then which of the following expression shows that A is the father of C?
Ans X 1. B x A – C
✓ 2. A × B − CX 3. A × B ÷ C
X 4. A−B×C



Q.20	In the following question below are given some statements followed by some conclusions based on those statements. Taking the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusion logically follows the given statements. Statements: I. Some S are C. II. Some C are D. Conclusions: I. All D are S. II. Some C are S. III. Some D are C. 1. Both conclusions I and II follows 2. Both conclusions II and III follows
	X 3. Both conclusions I and III follows
	X 4. All conclusion follows
Q.21	In a certain code language, 'DOVE' is coded as '1122214' and 'CROW' is coded as
	'823311'. How will 'MYNA' be coded in that language?
Ans	★ 1. 1121512
	✓ 2. 1132512
	X 3. 1132412
	★ 4. 1132522
Q.22	By interchanging the given two signs and numbers which of the following equation will be correct? - and +, 6 and 3
Ans	\times 1.7 – 3 × 2 ÷ 6 + 4 = 17
	\checkmark 2.8 × 3 – 6 + 4 ÷ 2 = 49
	\times 3.7 + 6 ÷ 3 × 8 - 5 = 35
	\times 4.9-6 × 4 + 3 × 7 = 8
	EXAM POWER
Q.23	Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word) Hibiscus: Flower
Ans	✓ 1. Pumpkin: Fruit
	X 2. Beans : Protein
	X 3. Leaf : Green
	X 4. Tree : Trunk



Q.24	Which of the following terms will replace the question mark (?) in the given series?
	ZXE ZWD ZVC ? ZTA
Ans	✗ 1. ZAB
	X 2. SUB
	✓ 3. ZUB
	▼ 4. ZUC
	T 4. 200
Q.25	Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. COOK: DQPM:: DOWN: EQXP:: ONLY:?
Ans	✓ 1. PPMA
	X 2. PPMB
	X 3. PQMA
	X 4. PQMB
Section	on : General Awareness
Q.1	िन िलिखत म से कौन ∪ैमी पु <mark>र ्रार जीतने वाले पहले</mark>
भारत	ीय थे? Ans 🧳 1. पंिडत रिव <mark>शंकर</mark>
	🗶 2. पंिडत िशव कु मार शम <mark>ा</mark>
	🗶 3. पंिडत िव मोहन भ5
	🗶 ४. उ™ाद जािकर 5सैन
Q.2 Ans	Chemical formula of gypsum is ✓ 1. CaSO _{4.2} H ₂ O
Ans	▼ 1. CaSO _{4.2} P ₂ O ▼ 2. CaSO ₄ .H ₂ O
	X 3. CaSO₄
	X 4. CaSO ₄ .(1/2)H ₂ O
	↑ 4. Ca5O ₄ .(1/2)⊓ ₂ O
Q.3	Wangala festival is celebrated by which of the following tribes?
Ans	X 1. Bhil tribe
	✓ 2. Garo tribe
	X 3. Tharu tribe
	★ 4. Bhutia tribe



procedure therefor? Ans X 1. Article 352 X 2. Article 249 ॐ 3. Article 356 X 4. Article 356 A 4. Article 356 Q.5 Name the first Odissi classical dancer from Odisha who was conferred the Padma Vibhushan Award. Ans ¾ 1. Kelucharan Mohapatra X 2. Bisayini Salpathy X 3. Sonal Mansingh X 4. Gangadhar Pradhan Q.6 The official draw for FIFA U-17 Women's World Cup India 2022 will be held in: Ans X 1. China PR X 2. Brazil X 3. India ¾ 4. Zurich Q.7	
X 2. Article 249 ॐ 3. Article 358 X 4. Article 358 X 4. Article 358 X 4. Article 358 Q.5 Name the first Odissi classical dancer from Odisha who was conferred the Padma Vibhushan Award. Ans ॐ 1. Kelucharam Mohapatra X 2. Bigain Samphy X 3. Sonal Mansingh X 4. Gangadhar Pradhan Q.6 The official draw for FIFA U-17 Women's World Cup India 2022 will be held in: Ans X 1. China PR X 2. Brazil X 3. India Ø 4. Zurich Q.7 Is a record of assets and liabilities of any firm. Ans X 1. Bil file X 2. Balance of payment Ø 3. Balance sheet X 4. Bank ballout Q.8 िन ितिखत म से कीन सा कथन सही है? L प रवार क ाण्य काय म ने जिनवाय आधार पर जि. दार और योजनावड ियत् को बढ़ावा दोने की मांग की है! II. रा जिय जननेक 5- वित्य एक मीनियाद डॉवा दान करनी है ! II. रा जिय जननेक 5- वित्य एक मीनियाद डॉवा दान करनी है !	
Q.5 Name the first Odissi classical dancer from Odisha who was conferred the Padma Vilbhushan Award. Ans	
Q.5 Name the first Odissi classical dancer from Odisha who was conferred the Padma Vibhushan Award. Ans ✓ 1. Kelucharan Mohapatra	
Vibhushan Award. Ans	
Ans	
X 2. Bijayini Satpathy X 3. Sonal Mansingh X 4. Gangadhar Pradhan Q.6 The official draw for FIFA U-17 Women's World Cup India 2022 will be held in: Ans X 1. China PR X 2. Brazil X 3. India ✓ 4. Zurich Q.7is a record of assets and liabilities of any firm. X 1. Bill file X 2. Balance of payment ✓ 3. Balance sheet X 4. Bank ballout Q.8 िन िलिखत म से कौन सा कथन सही है? 1. परवार क ाण काव' म ने जिनवाय' आधार पर िज4ेदार और योजनाब5 िपत् को बढ़ावा देने की मांग की है। 1. परवार क ाण काव' म ने जिनवाय' आधार पर िज4ेदार और योजनाब5 िपत् को बढ़ावा देने की मांग की है। 1. परवार क निल्ह क्यों नित्य तिवार व्यंग दान करती है।	
Q.6 The official draw for FIFA U-17 Women's World Cup India 2022 will be held in: Ans	
Q.6 The official draw for FIFA U-17 Women's World Cup India 2022 will be held in: Ans	
Ans	
Ans	
Ans	
Ans	
Ans	
X 2. Brazil X 3. India ✓ 4. Zurich Q.7 is a record of assets and liabilities of any firm. Ans X 1. Bill file X 2. Balance of payment ✓ 3. Balance sheet X 4. Bank bailout Q.8 िन िलिखत म से कौन सा कथन सही है? I. परवार क ाण काय' म ने अिनवाय' आधार पर िज4ेदार और योजनाब5 िपत् को बढ़ावा देने की मांग की है। II. रा ीय जनसं‰ा नीित 2000, 14 वष' की आयु तक मु.4 और अिनवाय' िश ा दान करने के िलए एक नीितगत ढांचा दान करती है।	
Q.7 is a record of assets and liabilities of any firm. Ans	
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Q.7is a record of assets and liabilities of any firm. Ans	
Ans	
Ans	
Ans	
Ans	
Ans	
2. Balance of payment 3. Balance sheet 4. Bank bailout 9. 1. परवार क ाण काय' म ने अिनवाय' आधार पर िज4ेदार और योजनाब5 िपतृ को बढ़ावा देने की मांग की है। 1. 1. 1 प जनसं%ा नीित 2000, 14 वष' की आयु तक मु.4 और अिनवाय' िश ा दान करने के िलए एक नीितगत ढांचा दान करती है।	
Q.8 िन िलिखत म से कौन सा कथन सही है? I. प रवार क ाण काय′ म ने अिनवाय′ आधार पर िज4ेदार और योजनाब5 िपतृ को बढ़ावा देने की मांग की है। II. रा ीय जनसं%ा नीित 2000, 14 वष′ की आयु तक मु.4 और अिनवाय′ िश ा दान करने के िलए एक नीितगत ढांचा दान करती है।	
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।. प रवार क ाण काय´ म ने अिनवाय´ आधार पर िज4ेदार और योजनाब5 िपतृ को बढ़ावा देने की मांग की है। ॥. रा ीय जनसं%ा नीित 2000, 14 वष´ की आयु तक मु.4 और अिनवाय´िश ा दान करने के िलए एक नीितगत ढांचा दान करती है।	
।. प रवार क ाण काय´ म ने अिनवाय´ आधार पर िज4ेदार और योजनाब5 िपतृ को बढ़ावा देने की मांग की है। ॥. रा ीय जनसं%ा नीित 2000, 14 वष´ की आयु तक मु.4 और अिनवाय´िश ा दान करने के िलए एक नीितगत ढांचा दान करती है।	
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।. प रवार क ाण काय´ म ने अिनवाय´ आधार पर िज4ेदार और योजनाब5 िपतृ को बढ़ावा देने की मांग की है। ॥. रा ीय जनसं%ा नीित 2000, 14 वष´ की आयु तक मु.4 और अिनवाय´िश ा दान करने के िलए एक नीितगत ढांचा दान करती है।	
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देने की मांग की है। ॥. रा ीय जनसं%ा नीित 2000, 14 वष´ की आयु तक मु.४ और अिनवाय´िश ा दान करने के िलए एक नीितगत ढांचा दान करती है।	
करने के िलए एक नीितगत ढांचा दान करती है।	
וומופוומויי א שוני ווא פוני ווא	
X 2. के वल I	
✓ 3. के वल II	
🗶 ४.। तथा ॥ दोनों	



Q.9 इवजेिल™ा टो रसेली िकस खोज के िलए िस5 ह? Ans
ार ※ 2. पीज़ोमीटर के आव ार
🥒 3. मरकरी बैरोमीटर के आिव ार
Q.10 Who was considered as last powerful Mughal ruler of India?
Ans X 1. Akbar
✓ 2. Aurangzeb
X 3. Akbar II
X 4. Shahjahan
Q.11 Which state government has launched the CHHATA scheme to improve groundwater
table in September 2022? Ans 1. Uttar Pradesh
X 2. Madhya Pradesh
🗙 3. Karnataka
✓ 4. Odisha
0.12. The minimum period of time taken upto which the weather variations are considered to
Q.12 The minimum period of time taken upto which the weather variations are considered to predict the climate of a place isyears.
Ans X 1. 20
★ 2. 25
X 3. 10
Q.13 The length of a Beach Volleyball court is:
Ans
✓ 2. 16 m
X 3. 20 m
X 3. 20 m
X 3. 20 m



Q.14 िन िलिखत म से हड़ ा स ता के िकस पुरा थल म जेडाइट पर	पाया
गया था? Ans 🗙 1. महागढ़ा	
🗶 २. मेहरगढ़	
X 3. ₹Wूर	
🗸 ४. दाओजली हेिडंग	
0.45 has been cleated as the 20th President of the Populat	Control for Originat in
Q.15has been elected as the 36th President of the Board of India.	Control for Cricket in
Ans X 1. Ravi Kumar S	
✓ 2. Roger Binny	
X 3. Pradeep Singh Kharola	
🗶 4. Bhushan Akshikar	
Q.16 For pregnant women, a Special Health Care Abhiyan 'Anchal' h	as been launched in
Ans X 1. Gujarat	
✓ 2. Rajasthan	
X 3. Haryana	
X 4. Punjab	
Q.17 Which of the following are members of 15 naturally occurring melements whose atomic numbers are between 57 and 71?	netallic chemical
Ans X 1. Alkali Metals	
✓ 2. Lanthanides	
X 3. Halogens	nwed -
X 4. Actinides	UWEK
Q.18 In the beginning of the 19 th century cotton mills in India were m	nostly located in which
of the following states? Ans X 1. Assam	
X 2. Punjab	
✓ 3. MaharashtraX 4. Haryana	



through his book entitled ''. X 1. India Today X 2. The Idea of India
X 2 The Idea of India
1 2. The fact of mala
✓ 3. Poverty and Un-British Rule in India
X 4. The History of British India
In March 2022, Pramod Sawant became theChief Minister of Goa.
X 1. 10 th
✓ 2. 13 th
★ 3. 15 th
X 4. 11 th
dentify an option that does NOT represent prokaryotic cells. 1. Mycoplasma
X 2. Blue-green alga
✓ 3. Sperm✓ 4. Pleuropneumonia-like organism
4. Pieuropneumonia-like organism
Which of the following is NOT an aid or auxiliary to tr <mark>ade</mark> ?
✓ 1. Hoarding
X 2. Insurance
X 3. Warehousing
X 4. Transportation
Who is known as the Father of Geology?
X 1. John Butler
X 2. Alfred Wegener
✓ 3. James Hutton
X 4. Art Smith
V



Q.24 Mirza Kamran was the brother of which Mughal emperor? Ans 1. Humayun 2. Akbar 3. Jahangir 4. Shah Jahan Q.25 Which of the following folk dances is primarily performed in the Indian state of Bihar? Ans 1. Ghoomar 2. Kalbeliya 3. Bidesia 4. Kummatti	
X 2. Akbar X 3. Jahangir X 4. Shah Jahan Q.25 Which of the following folk dances is primarily performed in the Indian state of Bihar? Ans X 1. Ghoomar X 2. Kalbeliya 3. Bidesia X 4. Kummatti	
X 3. Jahangir X 4. Shah Jahan Q.25 Which of the following folk dances is primarily performed in the Indian state of Bihar? Ans X 1. Ghoomar X 2. Kalbeliya 3. Bidesia X 4. Kummatti	
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Ans	
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Ans	
Ans	
X 2. Kalbeliya✓ 3. BidesiaX 4. Kummatti	
✓ 3. Bidesia ✓ 4. Kummatti	
★ 4. Kummatti	
★ 4. Kummatti	
Section : Quantitative Aptitude	
Section: Quantitative Aptitude	
Section : Quantitative Aptitude	
Section : Quantitative Aptitude	
Section : Quantitative Aptitude	
 Q.1 The radius of a right circular cylinder is thrice of its height. If the height of the cylinder is 2.1 cm, then what is the volume of cylinder? Ans ∴ 1. 224.65 cm³ ∴ 2. 194.72 cm³ ∴ 3. 324.86 cm³ ∴ 4. 261.95 cm³ Q.2 5 men and 8 women can complete a work in 12 days working together, while 3 men and 7 women together can complete the same work in 15 days. In how many days will 11 women complete the same work? 	
Ans ✓ 1. 12 X 2. 8 X 3. 6 X 4. 16	



Q.3 Study the given table and answer the question that follows.

The daily wages of 50 employees of a company is shown in the table.

Daily wages Interval	Frequency (No. of Employee)
80-90	9
90-100	3
100-110	31
110-120	5
120-130	2

Select the correct statement from the following options.

Ans

- X 1. The average wage of the employees lie between 80-90.
- X 2. The average wage of the employees lie between 110-120.
- ★ 4. The average wage of the employees lie between 90-100.

 $\textbf{Q.4} \quad \text{If} \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{is:} \ \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{is:} \ \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{is:} \ \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{is:} \ \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{is:} \ \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{is:} \ \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{is:} \ \ \frac{k-kcot^230^o}{1+cot^230^o} = sin^260^o + 4tan^245^o - cosec^260^o \ , \ \text{then the value of } k \ \ \text{(correct to two decimal places)} \ \text{(correct to two decima$

Ans

- **X** 1. 5.55
- **√** 2. −6.83
- X 3. -5.58
- **X** 4. 6.83



Q.5 A man bought a watch for 12% discount. If he had bought it for 24% discount, he would have got the watch for ₹2400 less. The marked price of the watch is:

Ans

- 1. ₹30,000
- 2. ₹22,500
- 3. ₹20,000
- 4. ₹25,000



Q.6 If the price of salt decreases by 20%, then by what percentage should consumption be increased to keep the expenditure same?

Ans

X 1. 26%

X 2. 27%

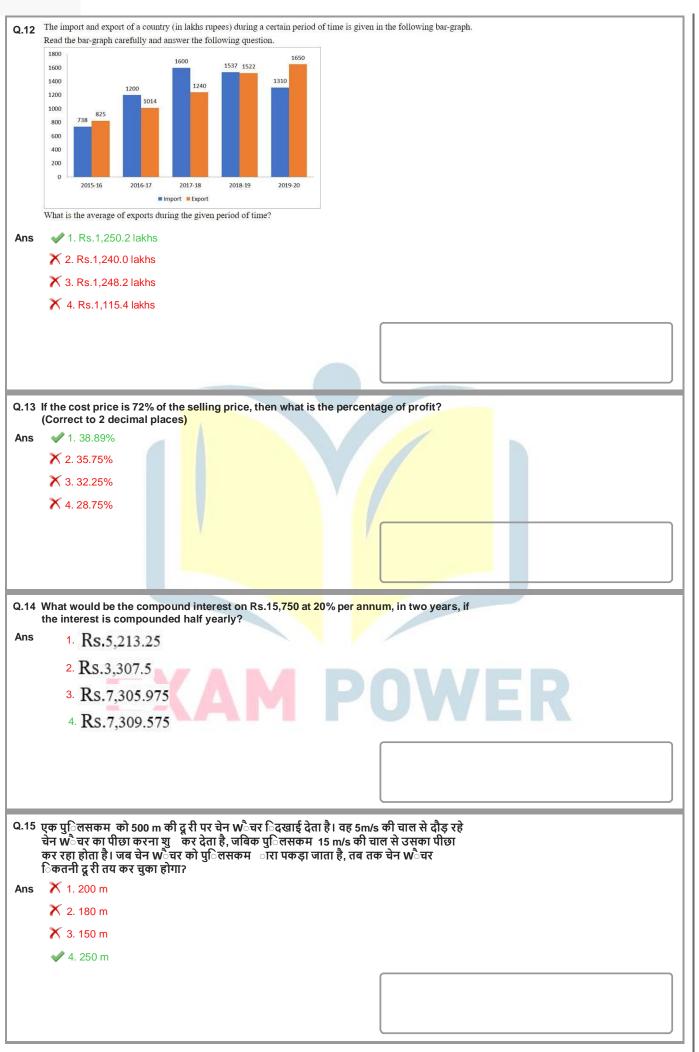
3. 25%

X 4. 24%



Ans X 1. 224 cm X 2. 183 cm X 3. 198 cm 4. 243 cm Q.8 Which smallest positive number should be subtracted from each of 9 and 13 so that 18 is the third proportion to them? Ans X 1. 2 X 2. 4 X 3. 3 4. 1 Q.9 A company employed 700 men and 300 women and the average wage was Rs.450 per day. If a man got Rs.50 more than a woman, then the daily wage of the woman is: Ans X 1. Rs.350 X 2. Rs.375 3. Rs.415 X 4. Rs.435
 X 3. 198 cm ✓ 4. 243 cm Q.8 Which smallest positive number should be subtracted from each of 9 and 13 so that 18 is the third proportion to them? Ans X 1. 2 X 2. 4 X 3. 3 ✓ 4. 1 Q.9 A company employed 700 men and 300 women and the average wage was Rs.450 per day. If a man got Rs.50 more than a woman, then the daily wage of the woman is: Ans X 1. Rs.350 X 2. Rs.375 ✓ 3. Rs.415 X 4. Rs.435 Q.10 A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then ∠ A = ?
Q.8 Which smallest positive number should be subtracted from each of 9 and 13 so that 18 is the third proportion to them? Ans X 1. 2 X 2. 4 X 3. 3 4 4. 1 Q.9 A company employed 700 men and 300 women and the average wage was Rs.450 per day. If a man got Rs.50 more than a woman, then the daily wage of the woman is: Ans X 1. Rs.350 X 2. Rs.375 3. Rs.415 X 4. Rs.435 Q.10 A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then ∠ A = ?
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is the third proportion to them? Ans
is the third proportion to them? Ans
Ans
X 2. 4 X 3. 3 ✓ 4. 1 Q.9 A company employed 700 men and 300 women and the average wage was Rs.450 per day. If a man got Rs.50 more than a woman, then the daily wage of the woman is: Ans X 1. Rs.350 X 2. Rs.375 ✓ 3. Rs.415 X 4. Rs.435 Q.10 A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then ∠A = ?
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day. If a man got Rs.50 more than a woman, then the daily wage of the woman is: Ans
Ans
 X 2. Rs.375 ✓ 3. Rs.415 X 4. Rs.435 Q.10 A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then ∠A = ?
 ✓ 3. Rs.415 ✓ 4. Rs.435 Q.10 A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then ∠A = ?
Q.10 A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then ∠ A = ?
Q.10 A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then \angle A = ?
Ans X 1.83°
★ 2.85°
✓ 3. 95°
★ 4. 75°
Q.11 If $8a^3 + 27b^3 = 16$ and $2a + 3b = 4$, then find the value of $16a^4 + 81b^4$.
Ans X 1. 26
★ 2. 30
X 3. 28
√ 4. 32







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Q.19 मान लीिजए O एक वृU का क5 है और P वृU के बाहर एक िबंदु है। यिद PAB, वृU का एक छे दक है जो वृU को A और B पर काटता है और PT, P से खीची गई 4श रेखा है, तो PT की लंबाई]ात कीिजए। PA = 3 cm और AB = 9 cm है।

- Ans \times 1. $3\sqrt{3}$ cm
 - $4\sqrt{3}$ cm
 - √ 3. 6 cm
 - 4. 8 cm
- Q.20 The value of 95 x 105 is:

- Ans X 1. 9981
 - **X** 2. 9935
 - X 3. 9965
 - **4**. 9975
- Q.21 The LCM of two numbers is 120 and the numbers are in the ratio 3:8. The sum of the numbers will be:

Ans X 1. 48

- **2**. 55
- X 3. 45
- **X** 4. 60
- Q.22 Simplify the following:

$$\frac{\cos x - \sqrt{3}\sin x}{2}$$

Ans

$$\times$$
 1. $\cos\left(\frac{\pi}{3} - x\right)$

$$\times$$
 2. $\sin\left(\frac{\pi}{3} + x\right)$

$$\times$$
 4. $\sin\left(\frac{\pi}{3} - x\right)$



Q.23	Find	the	value	of	the	foll	lowing	expression.
------	------	-----	-------	----	-----	------	--------	-------------

$$12^3 + (-8)^3 + (-4)^3$$

Ans X 1. 952

2. 1152

X 3. 1052

X 4. 852

Q.24	Suppose AAI	BC be a righ	t-angled tr	riangle wl	here ∠A = 90°	and AD \perp B	BC. If area (ΔABC)
	2							

= 80 cm² and BC = 16 cm, then the length of AD is:

Ans

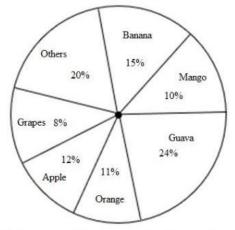
√ 1. 10 cm

X 2. 24 cm

X 3. 18 cm

X 4. 12 cm

Q.25 The following pie chart represents the percentage-wise weight distribution of different fruits out of 2500 kg of fruits at one fruit shop.



What is the difference between the weights of banana and orange at the fruit shop?

Ans

🟋 1. 125 kg

2. 100 kg

X 3. 50 kg

X 4. 75 kg

Section: English Comprehension



Q.1	Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
Ans	A. Shalini was scrolling down the phone screen while waiting for her friend. B. Her friend brought a bouquet for Shalini from the market place. C. When her friend arrived, they went to the market place. D. The market place was thronging with people. 1. BACD
	X 2. DACB
	✗ 3. ABCD
	✓ 4. ACDB
	4. ACDB
Q.2	Select the most appropriate meaning of the given idiom.
	Cut a poor figure
Ans	X 1. In a poor state
	X 2. To put a good impression
	✓ 3. To put a bad impression
	X 4. Bad physical form
Q.3	Rearrange the parts of the sentence in correct order. A 2007–2009 study P. explored forward thinking techniques Q. to synchronise time on board deep R. space probes for accurate navigation, in S. particular looking into low-cost options
Ans	X 1. RSPQ
	X 2. PSRQ
	X 3. SPRQ
	✓ 4. PQRS
	EXAM POWER
Q.4	Select the correct passive form of the given sentence.
_	The indentured labourers fix the roads.
Ans	X 1. The roads was fixed by indentured labourers.
	X 2. The roads were fixed by indentured labourers.
	√ 3. The roads are fixed by indentured labourers.
	X 4. The roads were being fixed by indentured labourers.



	Select the option that expresses the given sentence in active voice.
	The evil king was defeated by Gandolf, the savior.
Ans	✓ 1. Gandolf, the savior, defeated the evil king.
	X 2. The savior of Gandolf defeated the evil king.
	X 3. Gandolf, the savior, had defeated the evil king.
	X 4. Gandolf, the savior, defeats the evil king.
Q.6	Select the most appropriate meaning of the given idiom. Bear the palm
Ans	X 1. To bring joyful news
	X 2. To lose a game
	X 3. To advocate peace
	√ 4. To be a winner
Ans	A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative. Every person should know their own, what their skill set is and how unique they are. X 1. calamities X 2. punctualities
	T V
	✓ 3. specialties
	X 4. fecundities
	The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The manager told her that / she should be a bit more / careful while executed the / orders of the company.
Ans	X 1. The manager told her that
	X 2. she should be a bit more
	X 3. orders of the company
	✓ 4. careful while executed the
	✓ 4. careful while executed the
	✓ 4. careful while executed the
	✓ 4. careful while executed the



Q.9	Select the option that can be used as a one-word substitute for the given group of words.
	A loud appeal or demand
Ans	X 1. Protest
	X 2. Entourage
	✓ 3. Clamour
	X 4. Gambit
Q.10 Ans	Select the sentences that contains no spelling errors. 1. He screeched hystericalli after seeing the accident.
Ans	
	X 2. He screeched hysterically after seeing the accident.
	★ 3. He screeched hysteerically after seeing the accident.
	✓ 4. He screeched hysterically after seeing the accident.
Q.11	Select the option that expresses the given sentence in indirect speech. He said, 'Let us wait for the award.'
Ans	 ✓ 1. He proposed that they should wait for the award. X 2. He said that he should wait for the award.
	X 3. He proposed that he should wait for the award.
	X 4. He said that they shou <mark>ld waited for the award.</mark>
Q.12	Select the most appropriate ANTONYM of the given word.
	Humble
Ans	
	X 1. Dishonour X 2. Pleasantry
	X 3. Modest
	✓ 4. Arrogant



		-
Q.13	Select the most appropriate sentence.	option to substitute the underlined segment in the given
	During my Goa tour, I had vis	sited beaches in Vasco, Baga and Vagator.
Ans	1. visited	
	X 2. have visited	
	X 3. was visited	
	X 4. had visited	
Q.14	Select the most appropriate	option to fill in the blank.
		has led to a rise in many people's standard of living.
Ans		
	X 2. life	
	X 3. confidence	
	4. growth	
	4	ANTONYM of the word laborious from the given sentence:
Ans	happiness and immense sat 1. boundless 2. facile 3. strenuous 4. immense	orious job, but it gives me boundless joy, strenuous insfaction and I like this facile activity.
Q.16 Ans	Select the INCORRECTLY sp ✓ 1. Friwsk ✓ 2. Reply ✓ 3. Rusk ✓ 4. Foliage	POWER



Q.17 Select the most appropriate adverb to fill in the blank.	
They supplied the required human resource	
Ans 💜 1. faultlessly	
X 2. heavy	
X 3. clear	
★ 4. able	
$\ensuremath{\text{Q.18}}$ Select the most appropriate synonym of the underlined word.	
The celebrity was inundated with birthday wishes from his adr	mirers.
Ans X 1. Annoyed	
X 2. Preoccupied	
✗ 3. Rewarded	
✓ 4. Overwhelmed	
4. Overwneimed	
Q.19 Select the most appropriate ANTONYM of the given word.	
Dispatch	
Ans 🗳 1. Acquire	
X 2. Transmit	
X 3. Deliver	V.
X 4. Bulletin	
O 20 Salast the servest direct form of the given contents	
Q.20 Select the correct direct form of the given sentence. Leena said that his relatives were landing the next day.	OMED
Ans X 1. Leena said, "My relatives land tomorrow."	POWER
X 2. Leena said, "His relatives are landing today."	OVVEIL
X 3. Leena said, "His relatives were landing tomorrow."	
4. Leena said, "His relatives are landing tomorrow."	



Q.21 Ans	Comprehension: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Education (1)both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2)on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3)teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4)human right. Educational systems are established to provide education and (5), often for children and the young. SubQuestion No: 21 Select the most appropriate option to fill in blank number 1. X 1. likes X 2. releases X 3. makes
	√ 4. encompasses
	Commentancian
Q.22 Ans	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Education (1) both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2) on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3) teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4) human right. Educational systems are established to provide education and (5), often for children and the young. SubQuestion No : 22 Select the most appropriate option to fill in blank number 2. X 1. changes X 2. makes 3. focuses 4. regards
	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Education (1)both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2)on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3)teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4)human right. Educational systems are established to provide education and (5), often for children and the young. SubQuestion No: 23
Q.23	Select the most appropriate option to fill in blank number 3.
Ans	X 1. general
	✓ 2. professional
	X 3. fresh
	X 4. new



	Comprehension:
	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Education (1)both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2)on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3)teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4)human right. Educational systems are established to provide education and (5), often for children and the young.
	SubQuestion No : 24
Q.24	Select the most appropriate option to fill in blank number 4.
Ans	• • • • • • • • • • • • • • • • • • • •
	X 2. personal
	X 3. beautiful
	X 4. long standing
	Comprehension:
	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Education (1)both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2)on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3)teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4)human right. Educational systems are established to provide education and (5), often for children and the young.
	SubQuestion No : 25
Q.25	Select the most appropriate option to fill in blank number 5.
Ans	★ 1. dreams
	X 2. challenges
	✓ 3. training
	★ 4. upbringing