Multi Tasking Non Technical Staff and Havaldar CBIC and CBN Examination 2024

Exam Date	04/11/2024
Exam Time	12:30 PM - 2:30 PM
Subject	MTS Non Tech Havaldar CBIC and CBN Examination 2024

Section: Numerical and Mathematical Ability

Q.1 The resistance of a wire is directly proportional to its length and inversely proportional to the square of its radius. Two wires of the same material have the same resistance and their radii are in the ratio of 7 : 8. The corresponding lengths of the wires are 147 cm and L cm, respectively. Find the value of L.

Ans

X 1. 168

2. 192

X 3. 128

X 4. 158

Q.2 The table given below shows the marks obtained by five students in 4 different subjects. Maximum marks for each subject is 100.

Student	Subject			
	U	V	W	X
Roshan	68	64	60	72
Sameer	74	76	68	64
Aryan	61	64	59	81
Monika	87	71	84	56
Anshika	92	69	52	77

What is the average of total marks obtained by all five students in subject V?

Ans

X 1. 69.2

X 2.72.7

3. 68.8

X 4. 65.3

Q.3 A shopkeeper mixes three types of seeds worth ₹240, ₹258 and ₹252 in 3 : 1 : 2. Average cost of the mixture is:

Ans

X 1. ₹245

X 2. ₹248

X 3. ₹246

4. ₹247

Q.4 A car's radiator should contain a solution of 52% antifreeze. A motorist has 8 litres of 40% antifreeze. How many litres (rounded off to 2 decimal places) of 95% antifreeze liquid should he add to his solution to produce a 52% antifreeze?

Ans

X 1. 1.92

× 2. 3.45

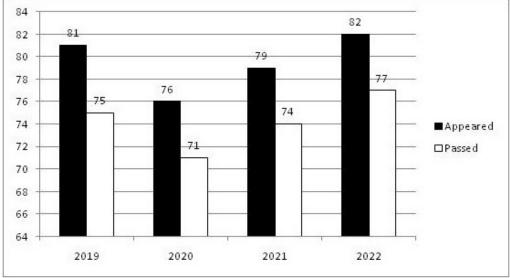
X 3. 4.26

4. 2.23

Q.5	Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 3% per year rate of interest for 5 years.
Ans	X 1.390
	X 2. 490
	★ 3. 410
	√ 4. 450
Q.6	A dishonest merchant sells his grocery using weights that are 15% less than the true weights and makes a profit of 20%. Find his total gain percentage.
Ans	× 1. 12.8%
	× 2. 5%
	× 4. 35%
Q.7	If a sum doubles itself on certain rate of simple interest in 10 years, then at the same rate of interest, the sum will become 4 times itself in:
Ans	★ 1. 20 years
	✓ 2. 30 years
	X 3. 25 years
	X 4. 40 years
Q.8	Raja's cap is in the form of a right circular cone of base radius 3 cm and slant
	height 25 cm. Find the area of the sheet required to make a cap. (Use $\pi =$
	3.14 correct to closest integer value)
Ans	X 1. 450 cm ²
	× 2. 50 cm ²
	X 3. 350 cm ²
	✓ 4. 264 cm ²
0.0	OCCUPY 82 SK OFF IN SO SK STREETSCAN SCORES IN SERVICES
Q.9	If the volume of a hemisphere is 155232 cm ³ , then half of the radius (in cm) of
	the hemisphere is: (Use $\pi = \frac{22}{7}$)
Ans	X 1. 18
	★ 2.42
	√ 3. 21
	★ 4. 12
Q.10	The outer circumference of the top of a large hemispherical iron bowl is 565.2 cm and the bowl is y cm thick. If the total surface area of the bowl is 98,988.5 cm ² , then what is the value of y? (Use π = 3.14.)
Ans	X 1. 3.5
	X 2. 4
	× 3.6
	√ 4. 5
Q.11	Sandeep sold an overcoat for ₹8,784 and made a profit of 22%. Determine the original cost of the overcoat.
Ans	X 1. ₹7,250
	× 2. ₹7,150
	√ 3. ₹7,200
	× 4. ₹7,100

Q.12	A trader gains 44% after selling an item at 25% discount on the printed price. What is the ratio of the cost price and the printed price of the item?
Ans	√ 1. 25 : 48
	★ 2. 35 : 48
	X 3. 48 : 25
	X 4. 48 : 35
Q.13	In a school, class 11 th has three sections A, B and C. There are 30 students in Section A, 36 students in Section B, and 40 students in Section C. The average marks scored by the students in Section A, Section B and Section C in the Mathematics annual exam are 90, 85 and 70, respectively. Find the average marks scored by the whole class, correct to two places of decimals.
Ans	X 1. 58.07
	★ 2. 80.57
	★ 3. 58.70
	✓ 4. 80.75
Q.14	A cyclist covers a distance of 2.5 km in 4 minutes 10 seconds. How long will he take to cover a distance of 12 km at the same speed?
Ans	X 1. 10 minutes
	X 2. 11 minutes
	X 3. 12 minutes
	✓ 4. 20 minutes
Q.15	The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 69 kg and 35 kg is:
Ans	X 1. 51.8
	★ 2. 50.8
	√ 3. 49.8
	★ 4. 48.8
Q.16	A man on a tour travels first 120 km at 48 km/h and the next 120 km at 80 km/h. The average speed for the first 240 km of the tour is:
Ans	X 1. 64 km/h
	√ 2. 60 km/h
	X 3. 66 km/h
	X 4. 72 km/h

Q.17 The graph shows the number of students who appeared and passed in class XII final exams in a school in different years.



In which year is the percentage of students passed with respect to students appeared the highest?

Ans

1. 2022

X 2. 2019

X 3. 2021

X 4. 2020

Q.18 Determine the smallest number which when divided by 20, 15 and 30 leaves remainder 6 in each case.

Ans

X 1. 36

2. 66

X 3.56

X 4.96

Q.19 During the first year, the population of a village increased by 5%, and during the second year, it reduced by 6%. At the end of the second year, its population was 35,532. What was the population at the beginning of the first year?

Ans

X 1. 38,000

2. 36,000

X 3. 37,568

X 4. 34,567

Q.20 Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 5% per year rate of interest for 3 years.

Ans

X 1.490

X 2.390

X 3.410

4. 450

Section: Reasoning Ability and Problem Solving

Q.1 E, F, G, H, L, K, and M are sitting around a circular table, facing the centre (but not necessarily in the same order). K sits to the immediate left of F. Only two people sit between K and L when counted from the left of K. Only two people sit between M and E when counted from the right of E. E sits to the immediate right of H. H is not an immediate neighbour of F. Who is sitting to the immediate right of G?

Ans

X 1. M

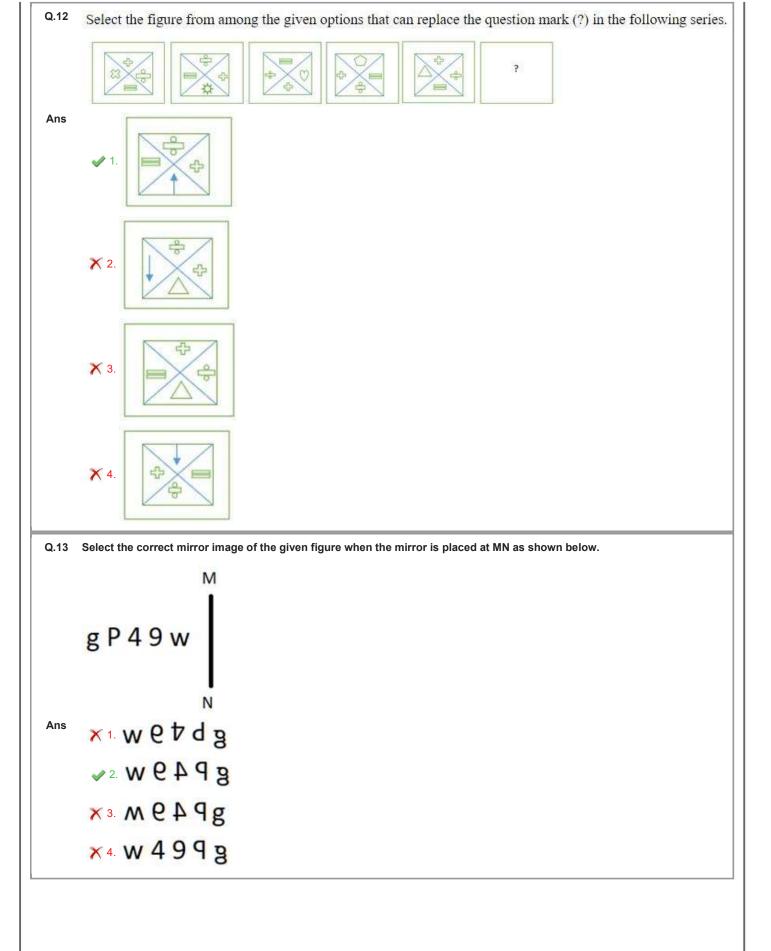
X 2. H

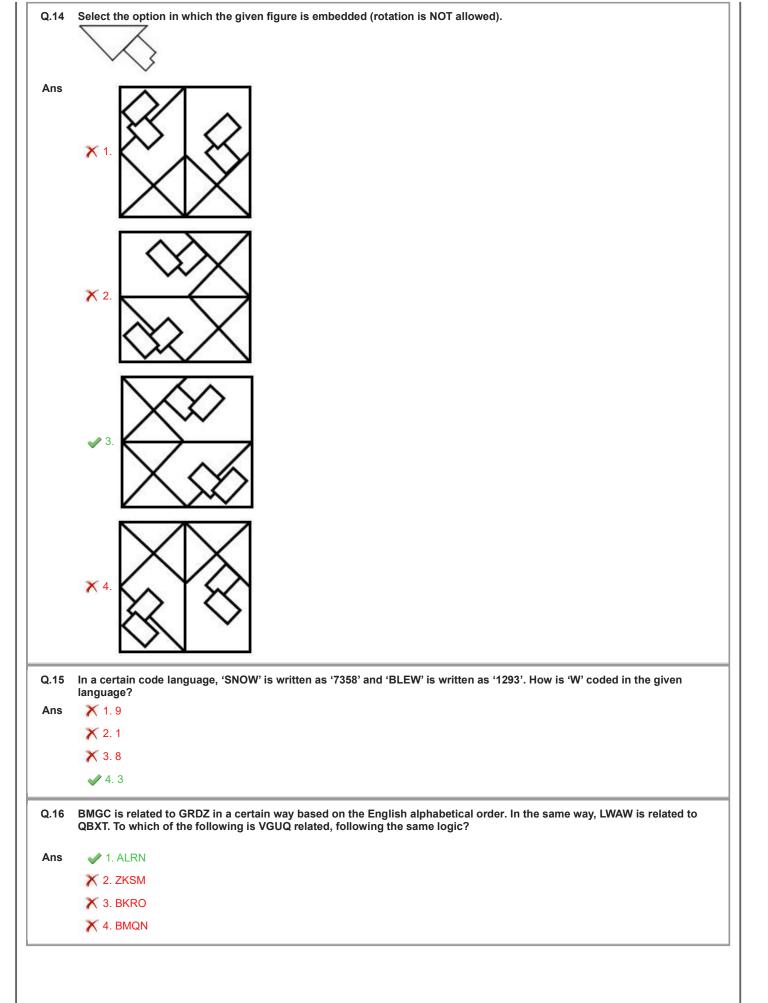
√ 3. L

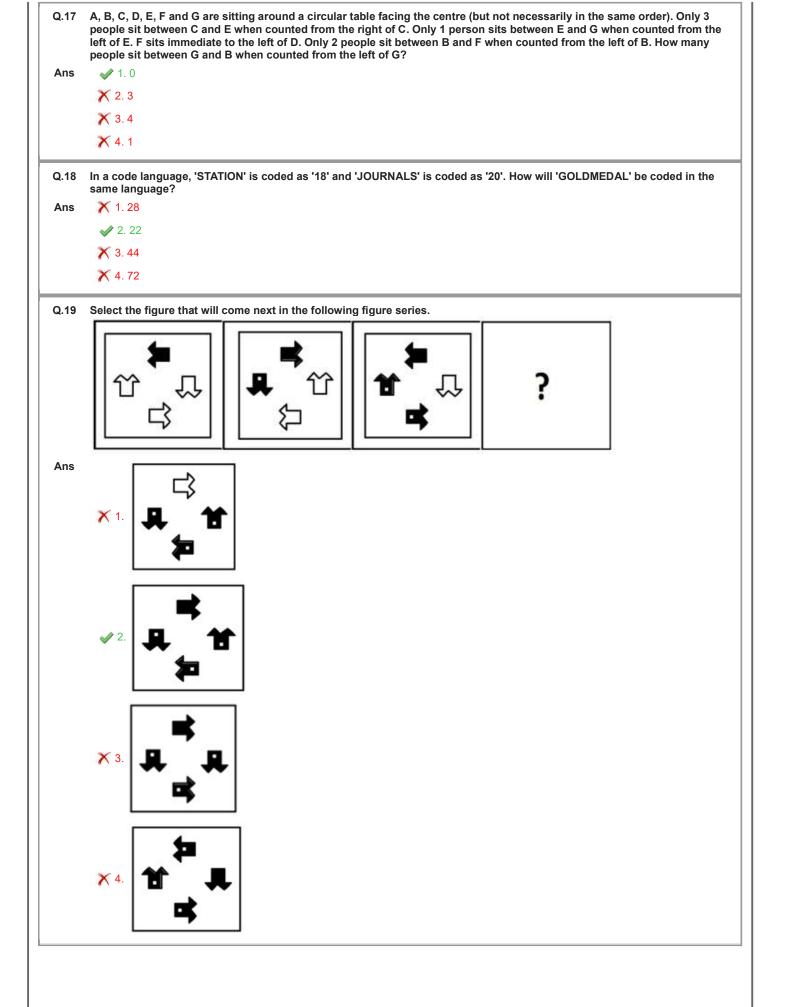
X 4. F

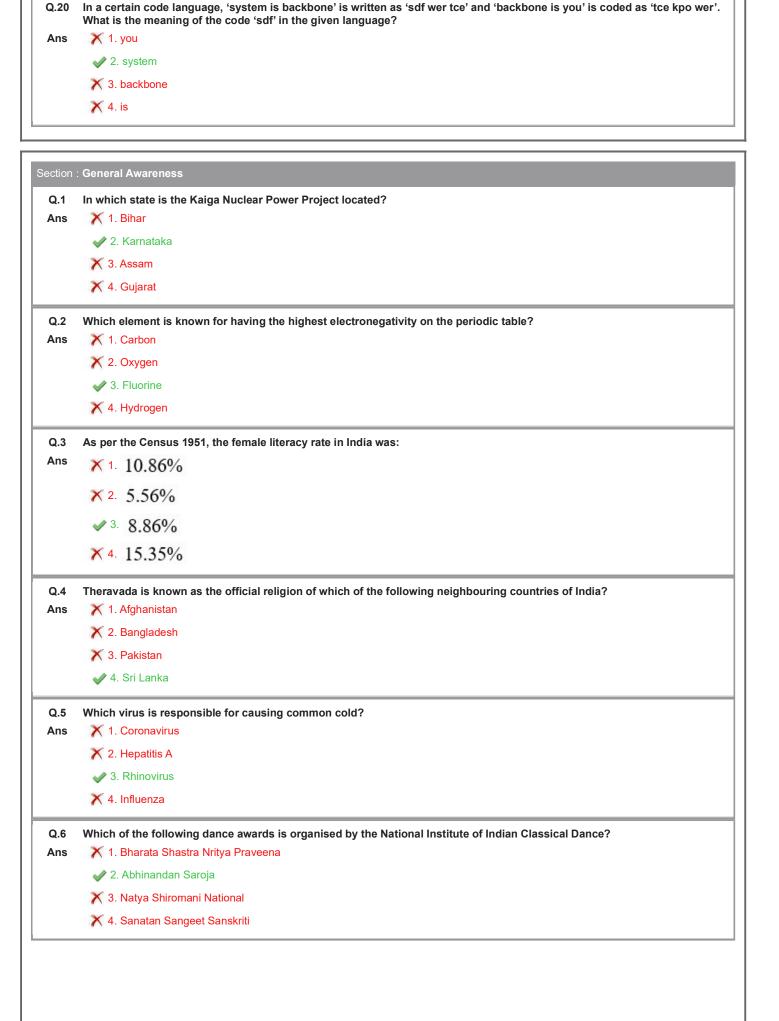
What will come in the place of the question mark (?) in the following equation, if '+' and 'x' are interchanged and '÷' and '-' Q.2 are interchanged? $35 \div 4 + 6 - 3 \times 12 = ?$ **1.39** Ans X 2.28 X 3.35 X 4. 29 Q.3 11 is related to 106 following a certain logic. Following the same logic, 15 is related to 146. To which of the following is 19 related following the same logic? (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.) Ans 1. 186 X 2. 178 X 3. 189 X 4. 177 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 conclusion(s) logically follow(s) from the statement(s). Statements: All bags are duffles. All duffles are containers. Conclusions: (I) Some containers are duffles. (II) All bags are containers. 1. Both conclusions (I) and (II) follow. Ans 2. Only conclusion (I) follows. 3. Neither conclusion (I) nor (II) follows. X 4. Only conclusion (II) follows. What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' Q.5 are interchanged? $12 \times 3 - 5 \div 4 + 11 = ?$ X 1. 11 Ans X 2. 14 X 3. 12 4. 13 Select the set in which the numbers are related in the same way as are the numbers of the given sets. Q.6 (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) (284, 238)(271, 225)Ans **1.** (212, 166) X 2. (297, 246) X 3. (185, 135) X 4. (252, 196)

Q.7	MK14 is related to QO19 in a certain way. In the same way, XV31 is related to BZ36. To which of the following is RP52 related, following the same logic?
Ans	X 1. ED43
	✓ 2. VT57
	※ 3. ST58
	★ 4. RT90
Q.8	In a certain code language, 'CINEMA' is coded as '591348' and 'WAR' is coded as '264'. How is 'A' coded in the given
4.0	language?
Ans	X 1. 3
	√ 2. 4
	X 3. 1
	★ 4. 8
Q.9	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: All roses are lilies.
	No rose is a sunflower. Conclusions:
	(I) All lilies are roses.
A	(II) No lily is a sunflower.
Ans	1. Neither conclusion I nor II follows
	X 2. Only conclusion II follows
	X 3. Both conclusions I and II follow
	X 4. Only conclusion I follows
Q.10	What should come in place of the question mark (?) in the given series based on the English alphabetical order?
	DBF, HFJ, LJN, PNR, ?
Ans	✓ 1. TRV
	★ 2. SQU
	X 3. QOS
	X 4. FDH
Q.11	What should come in place of the question mark (?) in the given series?
	41, 48, 55, 62, 69, ?
Ans	★ 1.77
	★ 2.75
	★ 3.74
	✓ 4.76





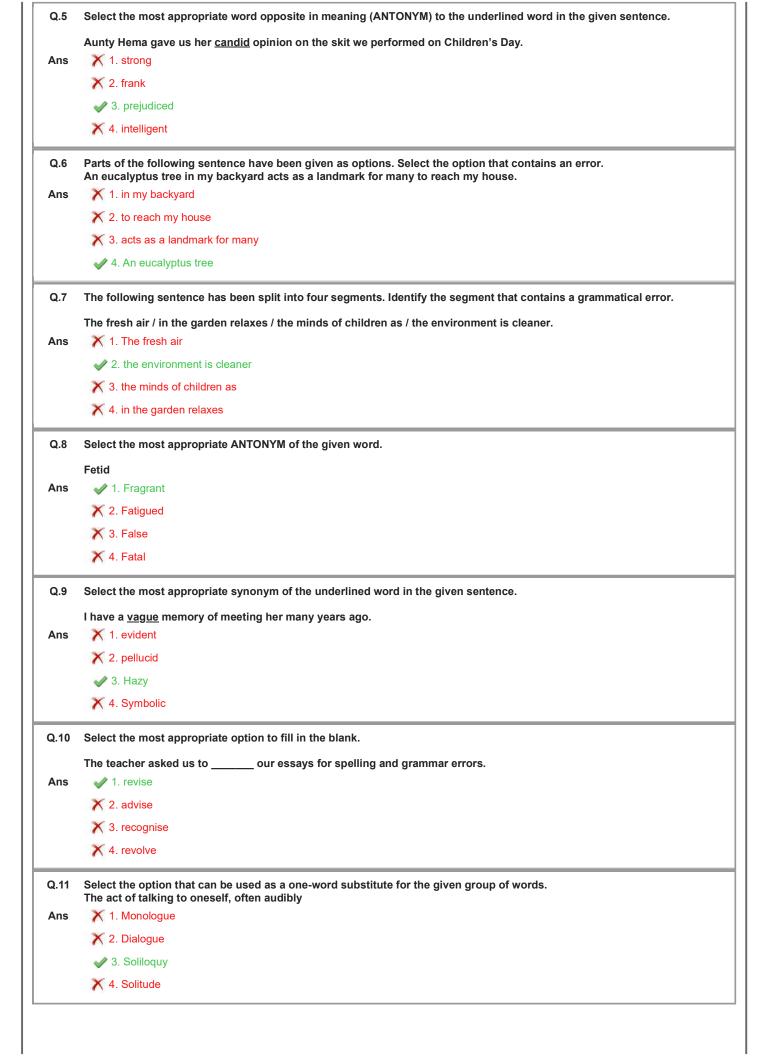




Q.7	How many central banks can a country have?
Ans	X 1. Four
	√ 2. One
	X 3. Three
	X 4. Two
Q.8	What is the rate of movement of tectonic plate boundaries?
Ans	X 1. 1-2 mm per year
	X 2. 1-2 m per year
	X 3. 2-5 km per year
	√ 4. 1-2 inch per year ———————————————————————————————————
Q.9	Which Rigvedic God is considered an intermediary between God and men?
Ans	X 1. Indra
	√ 2. Agni
	X 3. Varuna
	X 4. Yama
Q.10	The Uttarakhand Public Services (Horizontal Reservation for Women) Bill, 2022 provides how much reservation to women?
Ans	X 1. 25%
	× 2.45%
	✗ 3. 20%
	√ 4. 30%
Q.11	After the decisive battle of Plassey of 1757, who among the following was declared as the Nawab of Bengal by the British?
Ans	X 1. Mir Qasim
	2. Mir Jafar Ali Khan
	X 3. Mansur Ali Khan
	X 4. Murshid Quli Khan
Q.12	Which of the following is written by Mulk Raj Anand?
Ans	X 1. The Guide
	✓ 2. Untouchable
	X 3. The Blue Umbrella
	X 4. The White Tiger
Q.13	Ranjani Hebbar was associated with which of the following fields?
Ans	X 1. Hindustani music
	× 2. Bhajan
	✓ 3. Carnatic music
	X 4. Folk music
Q.14	At which of the following places is the tomb of Sher Shah Suri situated?
Ans	√ 1. Sasaram
	× 2. Rajgir
	X 3. Sultanpur
	X 4. Bargaon

Q.15	Akbar's first expedition towards Deccan was sent to Ahmednagar under the leadership of Prince Murad and
Ans	X 1. Birbal
	✓ 2. Abdul Rahim Khan-i-Khanan
	X 3. Adham Khan
	X 4. Man Singh
Q.16	Which of the following Biosphere reserves is located in Uttarakhand?
Ans	X 1. Panchmarhi
	✓ 2. Nanda Devi
	X 3. Nilgiri
	X 4. Dihang-Dibang
Q.17	Padma Subramanyam, Alarmel Valli, Yamini Krishnamurthy and Anita Ratnam are distinguished practitioners of
Ans	X 1. Odissi
	× 2. Kuchipudi
	🗙 3. Kathak
	✓ 4. Bharatanatyam
Q.18	In the year 1930, the Salt Satyagraha was led by who among the following?
Ans	X 1. Jawaharlal Nehru
	× 2. Subhas Chandra Bose
	X 4. Sardar Vallabhbhai Patel
Q.19	Which of the following countries won its 8 th Men's Asian Cup cricket title in 2023?
Ans	X 1. Pakistan
	√ 2. India
	X 3. Sri Lanka
	X 4. Bangladesh
Q.20	Which of the following is NOT mentioned in 'Liberty' as per the Preamble of the Indian Constitution?
Ans	X 1. Faith and worship
	2. Thought
	 ✓ 3. Trust and hope ✓ 4. Expression
	4. Expression
Q.21	In February 2023, who was appointed as the CEO of NITI Aayog?
Ans	✗ 1. Iyer Parmeshwaran✗ 2. Monali Jaiswal
	X 3. Geetika Srivastava
	✓ 4. BVR Subrahmanyam
	<u> </u>
Q.22 Ans	Based on the number of chambers in the heart, select the odd one from the following. 1. Turtle
Ans	X 2. Chameleon
	✓ 3. Crocodile
	W 0. 0.000ml0
	X 4. Frog

Q.23	In which of the following years was the 11 th Fundamental Duty added in the Indian Constitution through the 86 th Amendment Act?
Ans	√ 1. 2002
	× 2. 1986
	✗ 3. 1976
	★ 4. 1982
Q.24	What does the term 'deuce' signify in tennis?
Ans	X 1. A let
	✓ 2. A tied score at 40-40
	X 3. The final point in a game
	X 4. A fault in serving
Q.25	A regal ceremony in the form of Beating Retreat ceremony on the evening of marks the end of Republic Day celebrations.
Ans	X 1. 28 th January
	× 2. 27 th January
	√ 3. 29 th January
	X 4. 26 th January
Section	: English Language and Comprehension
Q.1 Ans	Select the INCORRECTLY spelt word.
7	× 2. Overview
	X 3. Opponent
	× 4. Ointment
	The state of the s
Q.2	Select the INCORRECTLY spelt word in the given sentence. Applicants who are younger and prettier than you will continue appliying.
Ans	X 1. younger
	X 2. applicants
	X 3. prettier
	✓ 4. appliying
0.0	
Q.3	Select the option that corrects the error in the given sentence. She performed bad in the exam.
Ans	X 1. bad
	× 2. good
	★ 3. goodly
	√ 4. badly
Q.4	Select the most appropriate ANTONYM of the underlined word in the given sentence.
	The late secretary of our society was known for his <u>ruthless</u> treatment of all the security personnel of the society.
Ans	X 1. Startled
	X 2. Fragile
	X 4. Brutal



Q.12	Select the most appropriate ANTONYM of the given word.
	Show
Ans	√ 1. Cover
	X 2. Exhibit
	X 3. Register
	X 4. Display
Q.13	The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
	He hardness ever / complains about / his workload because / he enjoys his job.
Ans	X 1. he enjoys his job
	X 2. his workload because
	√ 3. He hardness ever
	X 4. complains about
Q.14	Your sibling accidentally broke your favourite vase. Which of the following idioms might you use to tell them not to worry about it?
Ans	√ 1. "Don't cry over spilt milk!"
	X 2. "Shallow brooks are noisy"
	X 3. "Bite the bullet!"
	★ 4. "You're walking on air!"
Q.15	Select the most appropriate option to fill in the blank.
	I dream of a country where even the least talented person has the to earn a living.
Ans	X 1. landmark
	✓ 2. opportunity
	X 3. priority
	X 4. admit
Q.16	Select the option that will correct the underlined part of the given sentence. In case no correction is required, select No correction needed.
	Naveen is as tall as Rocky.
Ans	X 1. the tallest
	X 2. taller than
	X 3. tall as
	✓ 4. No correction needed
Q.17	The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
	How can someone / walk this farthest / just for / peace of mind?
Ans	✓ 1. walk this farthest
	X 2. just for
	X 3. peace of mind
	X 4. How can someone
Q.18	Select the most appropriate option to fill in the blank.
Ans	The humble surroundings of our company creativity amongst the newly recruited employees. X 1. banished
Alla	× 2. connected
	X 3. filed
	✓ 4. inspired
	— т. пюрпоч

Q.19	Select the option that will improve the underlined part of the given sentence.
	We agree that Professor Revanth is very knowledgeable, but we do not like attending his classes because he always keeps blowing the trumpet.
Ans	X 1. sounding the trumpet
	X 2. the blow of a trumpet
	X 4. the sound of the trumpet
Q.20	Select the INCORRECTLY spelt word.
	A) Exaggerate B) Accommodate C) Exuberant D) Perservere
Ans	X 1. C
	★ 2. A
	X 3. B
	✓ 4. D
	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. Students want (1) as the primary outcome of higher education. Hence, practical experience becomes (2) valuable to a student's degree. Indian students are highly (3) at theoretical learning but lack practical training. This (4) an issue for decades in the Indian job market. In order to address this (5) issue, state governments have to take a lead. The AP government in the past three years have made efforts to bridge this long-lasting gap between theoretical and practical learning of the students.
	SubQuestion No : 21
Q.21	Select the most appropriate option to fill in blank 1.
Ans	X 1. employable
	✓ 2. employability
	X 3. appointed
	X 4. appoint
	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. Students want (1) as the primary outcome of higher education. Hence, practical experience becomes (2) valuable to a student's degree. Indian students are highly (3) at theoretical learning but lack practical training. This (4) an issue for decades in the Indian job market. In order to address this (5) issue, state governments have to take a lead. The AP government in the past three years have made efforts to bridge this long-lasting gap between theoretical and practical learning of the students.
	SubQuestion No : 22
Q.22	Select the most appropriate option to fill in blank 2.
Ans	X 1. voicelessly
	× 2. hardly
	✓ 3. equally
	X 4. abruptly

	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. Students want (1) as the primary outcome of higher education. Hence, practical experience becomes (2) valuable to a student's degree. Indian students are highly (3) at theoretical learning but lack practical training. This (4) an issue for decades in the Indian job market. In order to address this (5) issue, state governments have to take a lead. The AP government in the past three years have made efforts to bridge this long-lasting gap between theoretical and practical learning of the students.	
	SubQuestion No: 23	ı
Q.23	Select the most appropriate option to fill in blank 3.	ı
Ans	X 1. spirit	l
	✓ 2. competitive	
	X 3. spiritual	l
	X 4. relaxed	ı
	A - I clased	
	Comprehension:	1
	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in	
	each blank.	ı
	Students want (1) as the primary outcome of higher education. Hence, practical experience becomes (2) valuable to a student's degree. Indian students are highly (3) at theoretical learning but lack practical training. This (4) an	ı
	issue for decades in the Indian job market. In order to address this (5) issue, state governments have to take a lead. The AP	ı
	government in the past three years have made efforts to bridge this long-lasting gap between theoretical and practical learning of the students.	
	SubQuestion No : 24	ı
Q.24	Select the most appropriate option to fill in blank 4.	ı
Ans	X 1. will be	
	X 2. have been	
		l
	X 4. is	ı
		J
	Comprehension:	ı
	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in	ı
	each blank. Studente went (1) as the primary outcome of higher education. Hence, practical experience becomes (2) as a valuable.	l
	Students want (1) as the primary outcome of higher education. Hence, practical experience becomes (2) valuable to a student's degree. Indian students are highly (3) at theoretical learning but lack practical training. This (4) an	ı
	issue for decades in the Indian job market. In order to address this (5) issue, state governments have to take a lead. The AP	ı
	government in the past three years have made efforts to bridge this long-lasting gap between theoretical and practical learning of the students.	
	SubQuestion No : 25	
Q.25	Select the most appropriate option to fill in blank 5.	ı
Ans	X 1. insignificant	
	✓ 2. perennial	
	X 3. appetite	
	X 4. momentary	
		10