

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

Exam Date	04/11/2024
Exam Time	12:30 PM - 2:30 PM
Subject	MTS Non Tech Havaladar 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 A). 168 B). 192 C). 128 D). 158

Correct Answer: B

- 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 A). 69.2 B). 72.7 C). 68.8 D). 65.3

Correct Answer: C

- 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 A). ₹245 B). ₹248 C). ₹246 D). ₹247

Correct Answer: D

- 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 A). 1.92 B). 3.45 C). 4.26 D). 2.23

Correct Answer: D

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

Ans A). 390 B). 490 C). 410 D). 450

Correct Answer: D

- 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 A). 12.8% B). 5% C). 41.17% D). 35%

Correct Answer: C

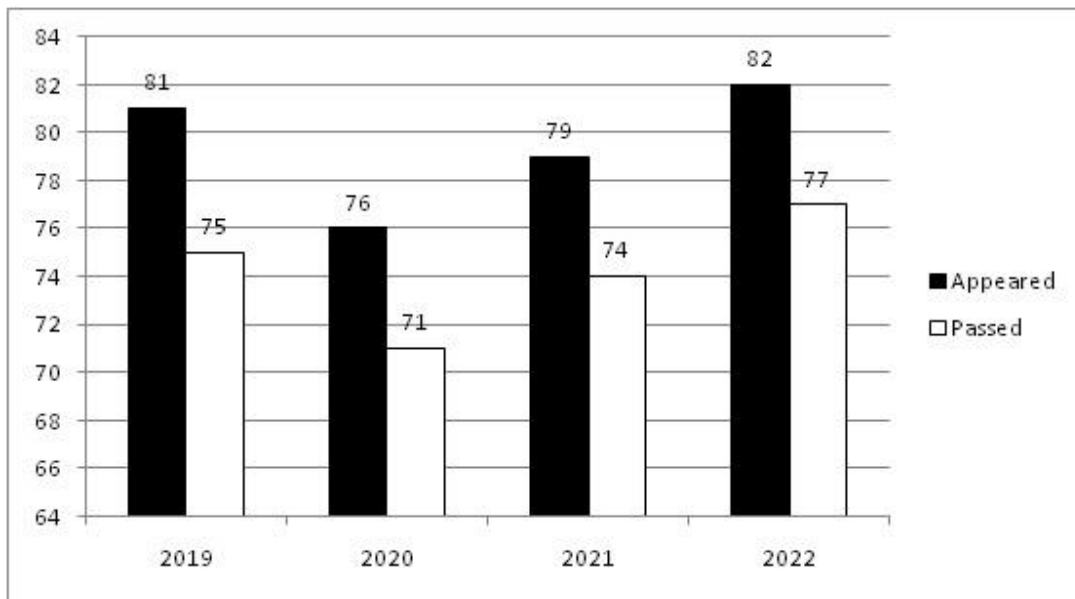
- Q.7** If a sum doubles itself on certain rate of simple interest in 10 years, then at the same rate of interest, the sum will become 4 times itself in:

Ans A). 20 years B). 30 years C). 25 years D). 40 years

Correct Answer: B

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	A). 450 cm ²	B). 50 cm ²	C). 350 cm ²	D). 264 cm ² Correct Answer: D
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	A). 18	B). 42	C). 21	D). 12 Correct Answer: C
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 $\pi = 3.14$.)			
Ans	A). 3.5	B). 4	C). 6	D). 5 Correct Answer: D
Q.11	Sandeep sold an overcoat for ₹8,784 and made a profit of 22%. Determine the original cost of the overcoat.			
Ans	A). ₹7,250	B). ₹7,150	C). ₹7,200	D). ₹7,100 Correct Answer: C
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	A). 25 : 48	B). 35 : 48	C). 48 : 25	D). 48 : 35 Correct Answer: A
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	A). 58.07	B). 80.57	C). 58.70	D). 80.75 Correct Answer: D
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	A). 10 minutes	B). 11 minutes	C). 12 minutes	D). 20 minutes Correct Answer: D
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	A). 51.8	B). 50.8	C). 49.8	D). 48.8 Correct Answer: C
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	A). 64 km/h	B). 60 km/h	C). 66 km/h	D). 72 km/h Correct Answer: B

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 A). 2022 B). 2019 C). 2021 D). 2020

Correct Answer: A

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

Ans A). 36 B). 66 C). 56 D). 96

Correct Answer: B

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 A). 38,000 B). 36,000 C). 37,568 D). 34,567

Correct Answer: B

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

Ans A). 490 B). 390 C). 410 D). 450

Correct Answer: D

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 A). M B). H C). L D). F

Correct Answer: C

Q.2 What will come in the place of the question mark (?) in the following equation, if '+' and '×' are interchanged and '÷' and '-' are interchanged?
 $35 \div 4 + 6 - 3 \times 12 = ?$

Ans A). 39 B). 28 C). 35 D). 29

Correct Answer: A

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 A). 186 B). 178 C). 189 D). 177

Correct Answer: A

Q.4 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.

Ans A). Both conclusions (I) and (II) follow.

B). Only conclusion (I) follows.

C). Neither conclusion (I) nor (II) follows.

D). Only conclusion (II) follows.

Correct Answer: A

Q.5 What will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged?
 $12 \times 3 - 5 \div 4 + 11 = ?$

Ans A). 11

B). 14

C). 12

D). 13

Correct Answer: D

Q.6 Select the set in which the numbers are related in the same way as are the numbers of the given sets.
(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 A). (212, 166)

B). (297, 246)

C). (185, 135)

D). (252, 196)

Correct Answer: A

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 A). ED43

B). VT57

C). ST58

D). RT90

Correct Answer: B

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 language?

Ans A). 3

B). 4

C). 1

D). 8

Correct Answer: B

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.

(II) No lily is a sunflower.

Ans A). Neither conclusion I nor II follows

B). Only conclusion II follows

C). Both conclusions I and II follow

D). Only conclusion I follows

Correct Answer: A

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 A). TRV

B). SQU

C). QOS

D). FDH

Correct Answer: A

Q.11 What should come in place of the question mark (?) in the given series?

41, 48, 55, 62, 69, ?

Ans A). 77

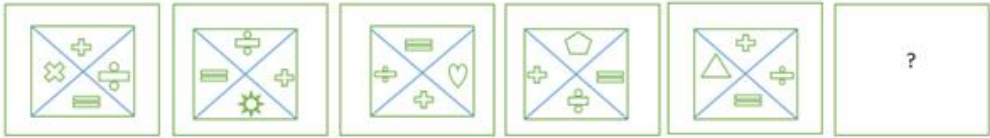
B). 75

C). 74

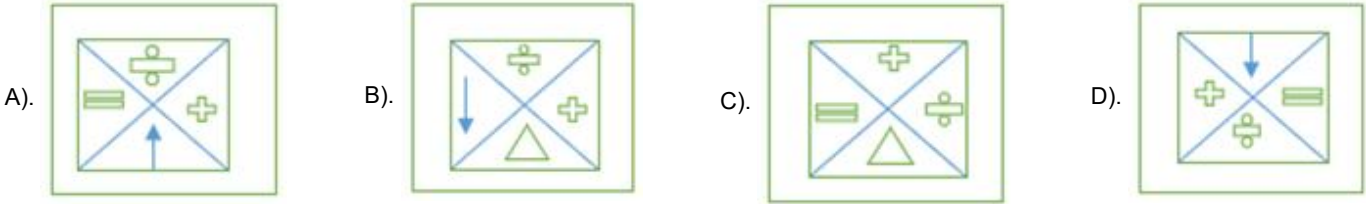
D). 76

Correct Answer: D

Q.12 Select the figure from among the given options that can replace the question mark (?) in the following series.

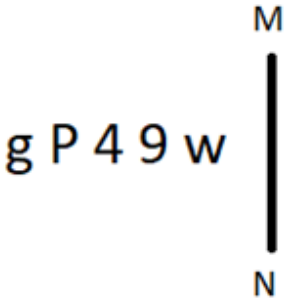


Ans

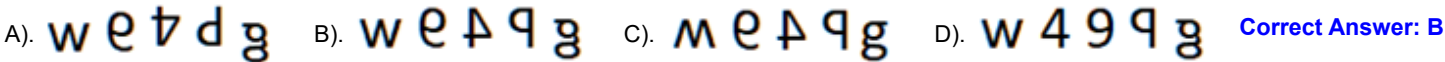


Correct Answer: A

Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



Ans

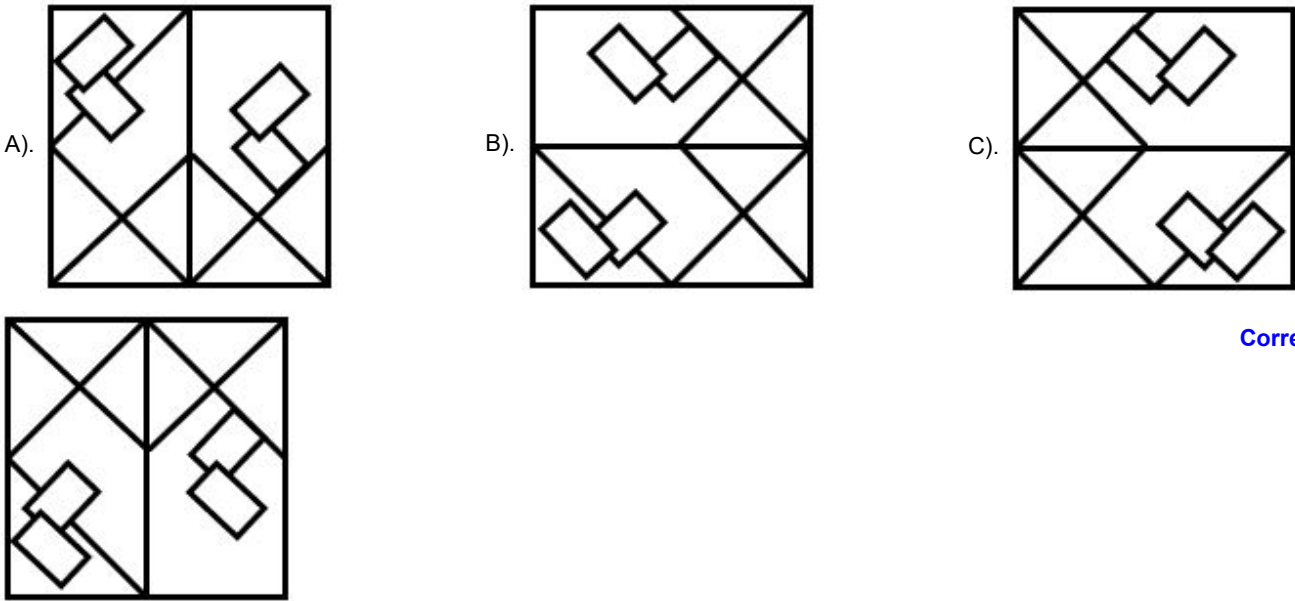


Correct Answer: B

Q.14 Select the option in which the given figure is embedded (rotation is NOT allowed).



Ans



Correct Answer: C

Q.15 In a certain code language, 'SNOW' is written as '7358' and 'BLEW' is written as '1293'. How is 'W' coded in the given language?

Ans A). 9 B). 1 C). 8 D). 3

Correct Answer: D

Q.16 BMGC is related to GRDZ in a certain way based on the English alphabetical order. In the same way, LWAW is related to QBXT. To which of the following is VGUQ related, following the same logic?

Ans A). ALRN B). ZKSM C). BKRO D). BMQN

Correct Answer: A

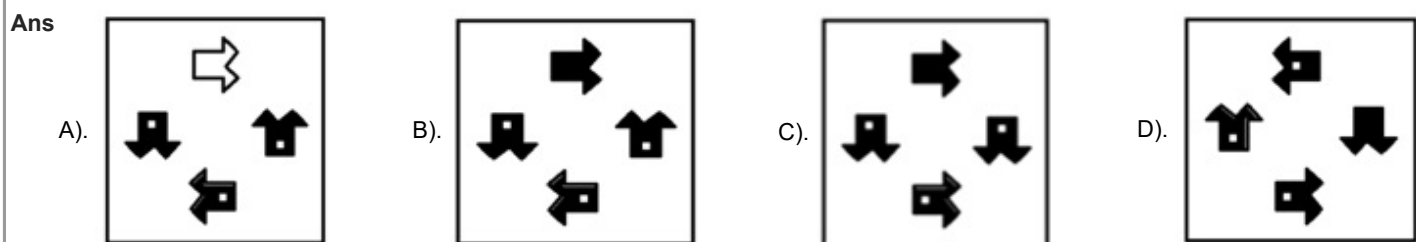
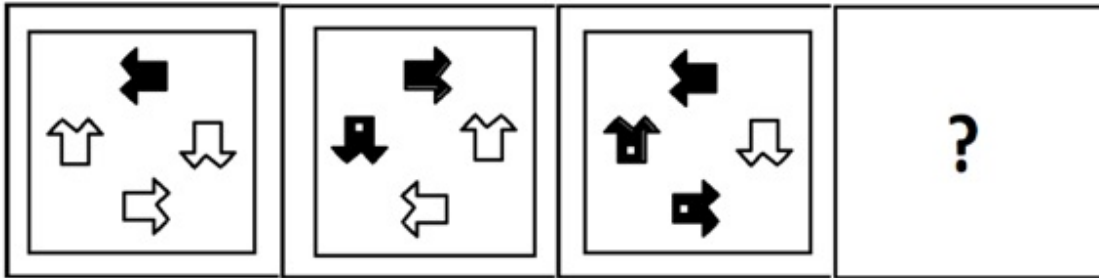
Q.17 A, B, C, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order). Only 3 people sit between C and E when counted from the right of C. Only 1 person sits between E and G when counted from the left of E. F sits immediate to the left of D. Only 2 people sit between B and F when counted from the left of B. How many people sit between G and B when counted from the left of G?

Ans A). 0 B). 3 C). 4 D). 1 **Correct Answer: A**

Q.18 In a code language, 'STATION' is coded as '18' and 'JOURNALS' is coded as '20'. How will 'GOLDMEDAL' be coded in the same language?

Ans A). 28 B). 22 C). 44 D). 72 **Correct Answer: B**

Q.19 Select the figure that will come next in the following figure series.



Correct Answer: B

Q.20 In a certain code language, 'system is backbone' is written as 'sdf wer tce' and 'backbone is you' is coded as 'tce kpo wer'. What is the meaning of the code 'sdf' in the given language?

Ans A). you B). system C). backbone D). is **Correct Answer: B**

Section : General Awareness

Q.1 In which state is the Kaiga Nuclear Power Project located?

Ans A). Bihar B). Karnataka C). Assam D). Gujarat **Correct Answer: B**

Q.2 Which element is known for having the highest electronegativity on the periodic table?

Ans A). Carbon B). Oxygen C). Fluorine D). Hydrogen **Correct Answer: C**

Q.3 As per the Census 1951, the female literacy rate in India was:

Ans A). 10.86% B). 5.56% C). 8.86% D). 15.35% **Correct Answer: C**

Q.4 Theravada is known as the official religion of which of the following neighbouring countries of India?

Ans A). Afghanistan B). Bangladesh C). Pakistan D). Sri Lanka **Correct Answer: D**

Q.5 Which virus is responsible for causing common cold?

Ans A). Coronavirus B). Hepatitis A C). Rhinovirus D). Influenza **Correct Answer: C**

Q.6 Which of the following dance awards is organised by the National Institute of Indian Classical Dance?

Ans A). Bharata Shashtra Nritya Praveena B). Abhinandan Saroja C). Natya Shiromani National D). Sanatan Sangeet Sanskriti

Correct Answer: B

Q.7 How many central banks can a country have?

Ans A). Four B). One C). Three D). Two **Correct Answer: B**

Q.8 What is the rate of movement of tectonic plate boundaries?				
Ans A). 1-2 mm per year	B). 1-2 m per year	C). 2-5 km per year	D). 1-2 inch per year	Correct Answer: D
Q.9 Which Rigvedic God is considered an intermediary between God and men?				
Ans A). Indra	B). Agni	C). Varuna	D). Yama	Correct Answer: B
Q.10 The Uttarakhand Public Services (Horizontal Reservation for Women) Bill, 2022 provides how much reservation to women?				
Ans A). 25%	B). 45%	C). 20%	D). 30%	Correct Answer: D
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 A). Mir Qasim	B). Mir Jafar Ali Khan	C). Mansur Ali Khan	D). Murshid Quli Khan	Correct Answer: B
Q.12 Which of the following is written by Mulk Raj Anand?				
Ans A). The Guide	B). Untouchable	C). The Blue Umbrella	D). The White Tiger	Correct Answer: B
Q.13 Ranjani Hebbbar was associated with which of the following fields?				
Ans A). Hindustani music	B). Bhajan	C). Carnatic music	D). Folk music	Correct Answer: C
Q.14 At which of the following places is the tomb of Sher Shah Suri situated?				
Ans A). Sasaram	B). Rajgir	C). Sultanpur	D). Bargaon	Correct Answer: A
Q.15 Akbar's first expedition towards Deccan was sent to Ahmednagar under the leadership of Prince Murad and _____.				
Ans A). Birbal	B). Abdul Rahim Khan-i-Khanan	C). Adham Khan	D). Man Singh	Correct Answer: B
Q.16 Which of the following Biosphere reserves is located in Uttarakhand?				
Ans A). Panchmarhi	B). Nanda Devi	C). Nilgiri	D). Dihang-Dibang	Correct Answer: B
Q.17 Padma Subramanyam, Alarmel Valli, Yamini Krishnamurthy and Anita Ratnam are distinguished practitioners of _____.				
Ans A). Odissi	B). Kuchipudi	C). Kathak	D). Bharatanatyam	Correct Answer: D
Q.18 In the year 1930, the Salt Satyagraha was led by who among the following?				
Ans A). Jawaharlal Nehru	B). Subhas Chandra Bose	C). Mahatma Gandhi	D). Sardar Vallabhbhai Patel	Correct Answer: C
Q.19 Which of the following countries won its 8th Men's Asian Cup cricket title in 2023?				
Ans A). Pakistan	B). India	C). Sri Lanka	D). Bangladesh	Correct Answer: B
Q.20 Which of the following is NOT mentioned in 'Liberty' as per the Preamble of the Indian Constitution?				
Ans A). Faith and worship	B). Thought	C). Trust and hope	D). Expression	Correct Answer: C
Q.21 In February 2023, who was appointed as the CEO of NITI Aayog?				
Ans A). Iyer Parmeshwaran	B). Monali Jaiswal	C). Geetika Srivastava	D). BVR Subrahmanyam	Correct Answer: D
Q.22 Based on the number of chambers in the heart, select the odd one from the following.				
Ans A). Turtle	B). Chameleon	C). Crocodile	D). Frog	Correct Answer: C
Q.23 In which of the following years was the 11th Fundamental Duty added in the Indian Constitution through the 86th Amendment Act?				
Ans A). 2002	B). 1986	C). 1976	D). 1982	Correct Answer: A
Q.24 What does the term 'deuce' signify in tennis?				
Ans A). A let	B). A tied score at 40-40	C). The final point in a game	D). A fault in serving	Correct Answer: B

Q.25	A regal ceremony in the form of Beating Retreat ceremony on the evening of _____ marks the end of Republic Day celebrations.			
Ans	A). 28 th January	B). 27 th January	C). 29 th January	D). 26 th January
				Correct Answer: C

Section : **English Language and Comprehension**

Q.1	Select the INCORRECTLY spelt word.			
Ans	A). Obligation	B). Overview	C). Opponent	D). Ointment
				Correct Answer: A

Q.2	Select the INCORRECTLY spelt word in the given sentence. Applicants who are younger and prettier than you will continue applying.			
Ans	A). younger	B). applicants	C). prettier	D). applying
				Correct Answer: D

Q.3	Select the option that corrects the error in the given sentence. She performed bad in the exam.			
Ans	A). bad	B). good	C). goodly	D). badly
				Correct Answer: D

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	A). Startled	B). Fragile	C). Compassionate	D). Brutal
				Correct Answer: C

Q.5	Select the most appropriate word opposite in meaning (ANTONYM) to the underlined word in the given sentence. Aunty Hema gave us her <u>candid</u> opinion on the skit we performed on Children's Day.			
Ans	A). strong	B). frank	C). prejudiced	D). intelligent
				Correct Answer: C

Q.6	Parts of the following sentence have been given as options. Select the option that contains an error. An eucalyptus tree in my backyard acts as a landmark for many to reach my house.			
Ans	A). in my backyard	B). to reach my house	C). acts as a landmark for many	D). An eucalyptus tree
				Correct Answer: D

Q.7	The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The fresh air / in the garden relaxes / the minds of children as / the environment is cleaner.			
Ans	A). The fresh air	B). the environment is cleaner	C). the minds of children as	D). in the garden relaxes
				Correct Answer: B

Q.8	Select the most appropriate ANTONYM of the given word. Fetid			
Ans	A). Fragrant	B). Fatigued	C). False	D). Fatal
				Correct Answer: A

Q.9	Select the most appropriate synonym of the underlined word in the given sentence. I have a <u>vague</u> memory of meeting her many years ago.			
Ans	A). evident	B). pellucid	C). Hazy	D). Symbolic
				Correct Answer: C

Q.10	Select the most appropriate option to fill in the blank. The teacher asked us to _____ our essays for spelling and grammar errors.			
Ans	A). revise	B). advise	C). recognise	D). revolve
				Correct Answer: A

Q.11	Select the option that can be used as a one-word substitute for the given group of words. The act of talking to oneself, often audibly			
Ans	A). Monologue	B). Dialogue	C). Soliloquy	D). Solitude
				Correct Answer: C

Q.12	Select the most appropriate ANTONYM of the given word. Show			
Ans	A). Cover	B). Exhibit	C). Register	D). Display
				Correct Answer: A

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 A). he enjoys his job B). his workload because C). He hardness ever D). complains about

Correct Answer: C

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 A). "Don't cry over spilt milk!" B). "Shallow brooks are noisy" C). "Bite the bullet!" D). "You're walking on air!"

Correct Answer: A

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 A). landmark B). opportunity C). priority D). admit

Correct Answer: B

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 A). the tallest B). taller than C). tall as D). No correction needed

Correct Answer: D

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 A). walk this farthest B). just for C). peace of mind D). How can someone

Correct Answer: A

Q.18 Select the most appropriate option to fill in the blank.

The humble surroundings of our company _____ creativity amongst the newly recruited employees.

Ans A). banished B). connected C). filed D). inspired

Correct Answer: D

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 A). sounding the trumpet B). the blow of a trumpet C). blowing his own trumpet D). the sound of the trumpet

Correct Answer: C

Q.20 Select the INCORRECTLY spelt word.

- A) Exaggerate
- B) Accommodate
- C) Exuberant
- D) Perservere

Ans A). C B). A C). B D). D

Correct Answer: 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 A). employable B). employability C). appointed D). appoint

Correct Answer: B

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 A). voicelessly B). hardly C). equally D). abruptly

Correct Answer: C

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

Q.23 Select the most appropriate option to fill in blank 3.

Ans A). spirit B). competitive C). spiritual D). relaxed

Correct Answer: B

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 : 24

Q.24 Select the most appropriate option to fill in blank 4.

Ans A). will be B). have been C). has been D). is

Correct Answer: C

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 : 25

Q.25 Select the most appropriate option to fill in blank 5.

Ans A). insignificant B). perennial C). appetite D). momentary

Correct Answer: B