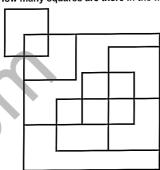
Combined Graduate Level Examination 2024 Tier I

Exam Date	24/09/2024
Exam Time	4:00 PM - 5:00 PM
Subject	Combined Graduate Level Examination Tier I

_		
	Section	General Intelligence and Reasoning
	Q.1	In a certain code language, 'BLEACHERS' is coded as '63' and 'ABACAS' is coded as '42'. How will 'FIZZY' be coded in the same language?
	Ans	X 1.44
		X 2. 45
		√ 3.35
		X 4.52
	Q.2	How many squares are there in the figure shown below?



Ans 🗶 1. 11

X 2. 14

X 3. 12

√ 4. 13

Q.3 Select the option that is related to the third word in the same way as the second word is related to the first word. (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)

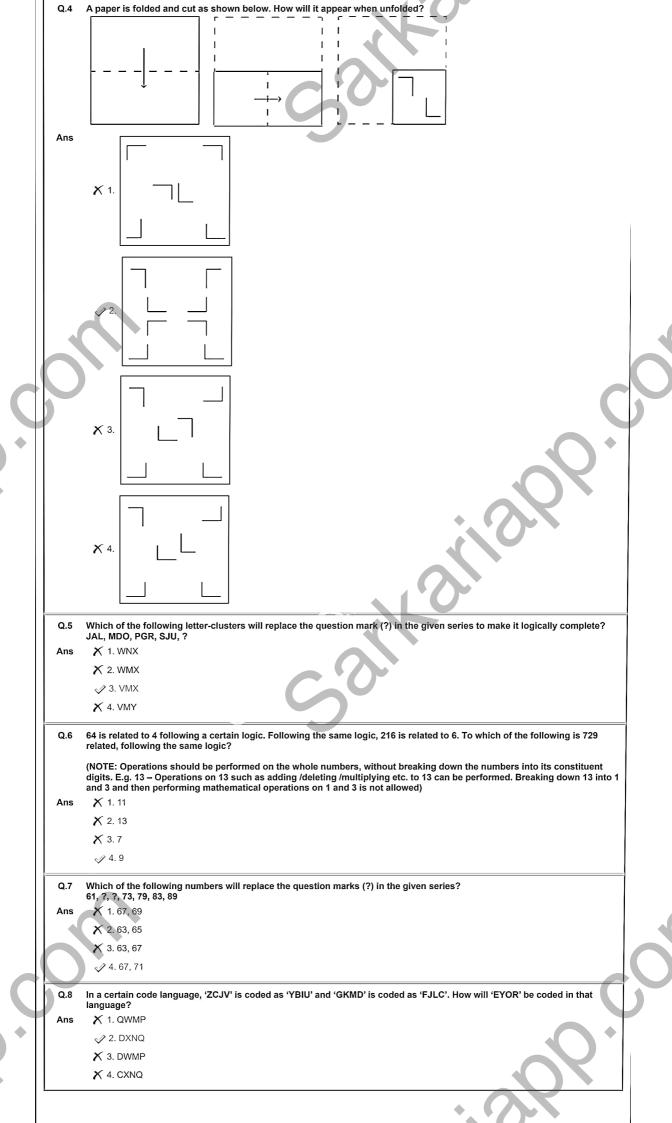
Botany: Plants:: Conchology:?

Ans X 1. Names

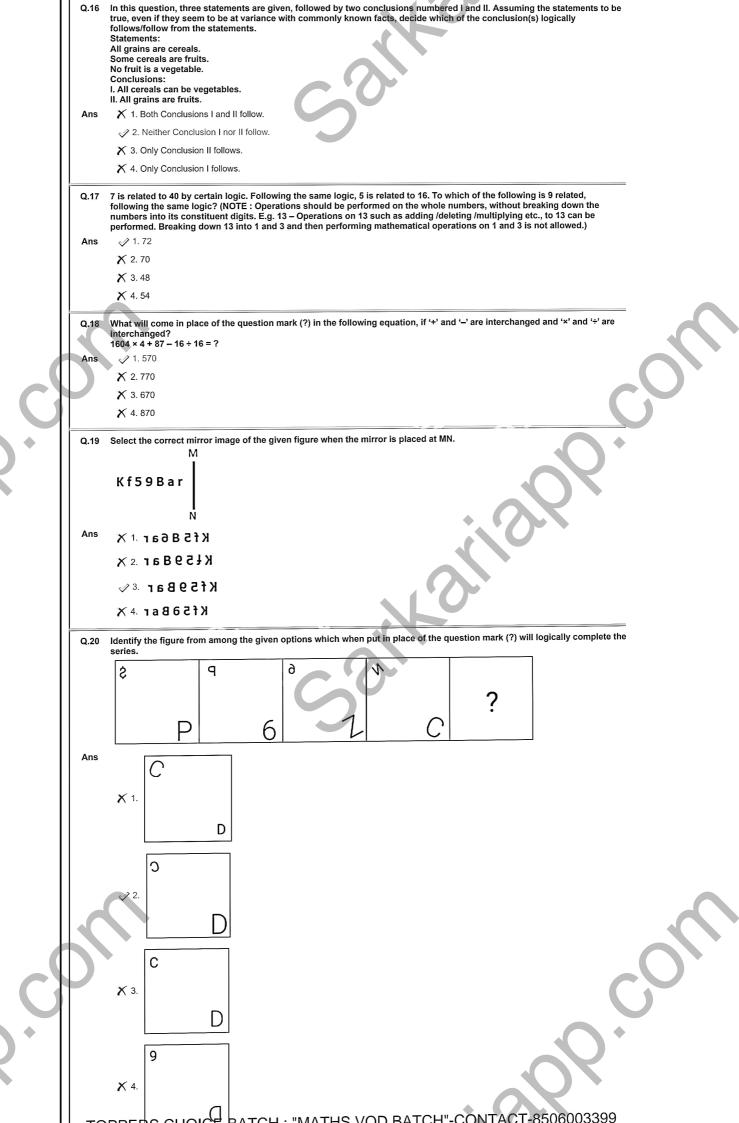
2. Shells

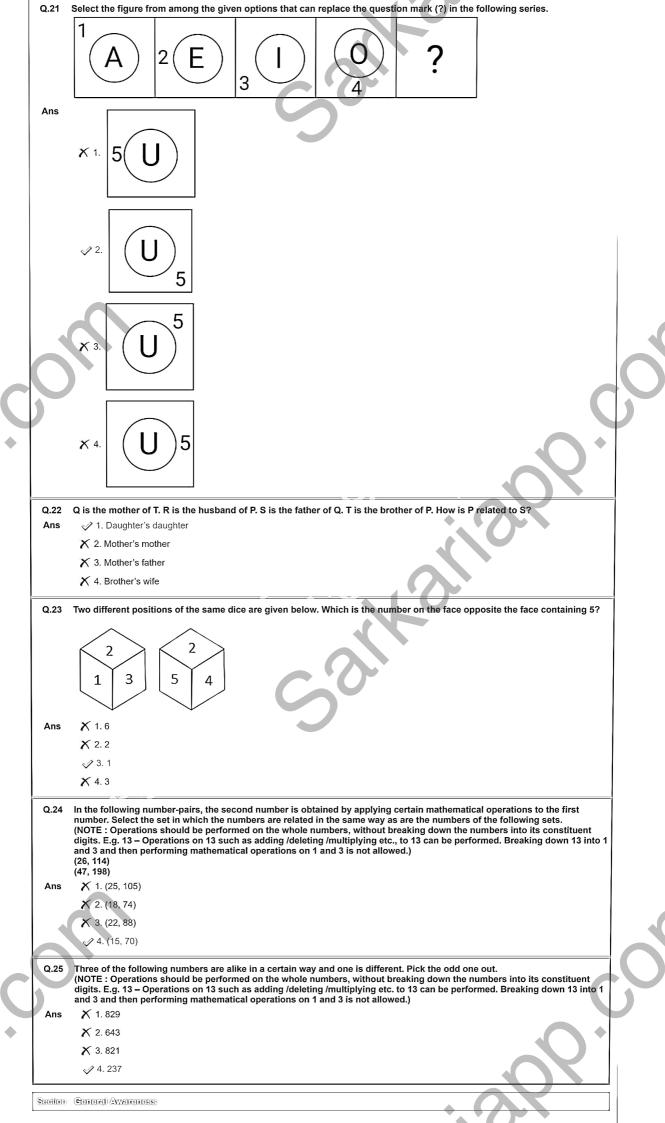
🗶 3. Soil

X 4. Fossils

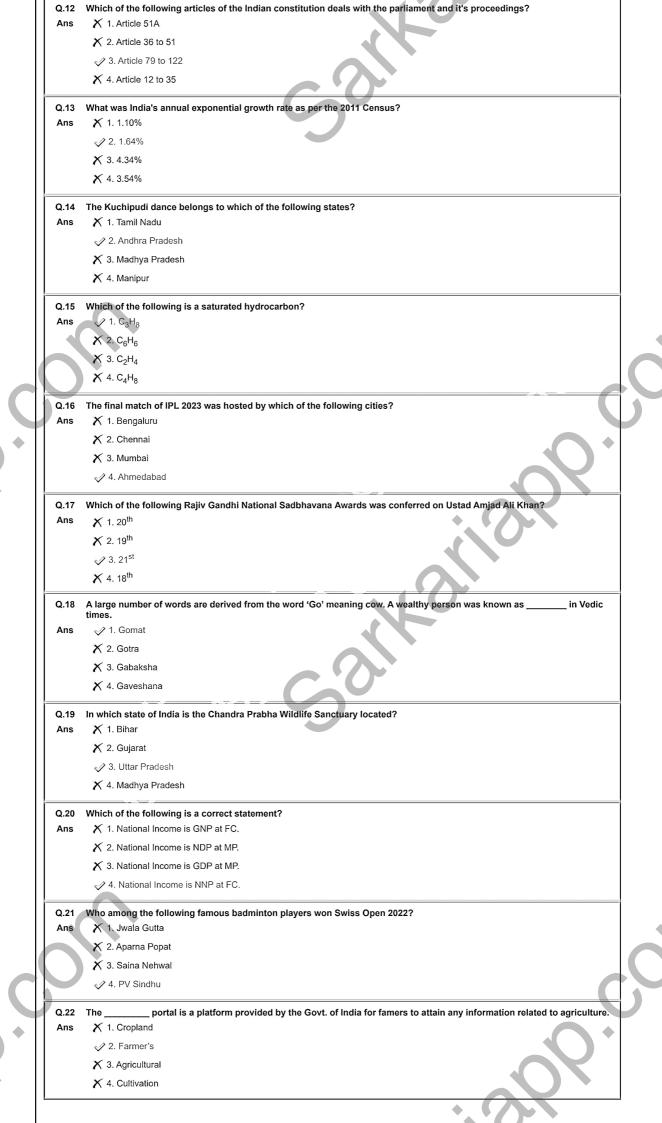


The position of how many letters will remain unchanged if each of the letters in the word 'SIGNATURE' is re-arranged in the Q.9 English alphabetical order from left to right? Ans X 1. Three 2. One X 3. Two X 4. Four Q.10 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the number of persons who can drive different vehicles. Cycle Car 75 45 12 52 What is the difference between the number of persons who can drive all the three vehicles and that of persons who can drive any two of these vehicles? X 1, 27 Ans X 2. 15 X 3. 12 **4.21** Select the word pair that best represents a similar relationship to the one expressed in the pair of words given below. (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) Love: Harmony X 1. Calm : Sad 2. Peace : Bliss X 3. Rage : Cool X 4. Anger : Excitement Q.12 Select the correct mirror image of the given figure when the mirror is placed at MN. Cw4t2da Ans CM412da.1X Cw4t2da.5 📎 Cw4t2ba &X Cw4Stda.4X Q.13 Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which is the one that DOES NOT belong to that group? (Note: The odd man out is not based on the number of consonants/vowels or their position in the letter-cluster.) Ans X 1. HKI X 2. RUS X 3. MPN 4. QUR Q.14 Which number will come in the place of the question mark (?) in the following equation if '+' and '-' are interchanged and 'x' and '÷' are interchanged? 7 ÷ 5 - 30 × 6 + 4 = ? X 1.30 Ans **2**. 36 X 3, 34 Q.15 Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. B_DE_GDGBK_IB_DK Ans X 1. CODB √ 2. CBDO X 3. CBDP X 4. OCBD





	Q.1 Ans	Gangubai Hangal belonged to the X 1. Gwalior gharana	
	Allo	✓ 2. Kirana gharana	
		X 3. Banaras gharana	
		★ 4. Agra gharana	
=		Which of the fellowing districts of halfs is an angula of the indicated district?	
	Q.2 Ans	Which of the following districts of India is an example of an industrial district? X 1. Faridabad	
	71110	X 2. Meerut	
		✓ 3. Kota	
		★ 4. Jaipur	
		1 /	
	Q.3	Which among the following is NOT a classification criterion of drugs?	
	Ans	X 1. Chemical structure	
		X 2. Molecular target✓ 3. Behavioural condition	
		X 4. Pharmacological effect	
<u>_</u>		A 4. Friatriacological ellect	
	Q.4	The Non-Cooperation Movement was called off after which of the following incidents?	
	Ans	X 1. Outbreak of the First World War	
		X 2. Kakori train robbery	
		✓ 3. Chauri-Chaura incident	
		X 4. Komagata Maru incident	
	Q.5	With reference to Ishwar Chandra Vidyasagar, consider the following statements.	
		a) He protested child marriage and polygamy. b) Due to his efforts, the first Hindu Widow Remarriage Act, 1856, was introduced.	$\mathbf{\nu}$
^		c) He was primarily known for his scholarship in Persian language. Which of the above statements is/are correct?	
	Ans	X 1. a, b, c	1
		√ 2. a, b	
		X 3. a, c	
		X 4. b, c	
	Q.6	What happens when two forces act in the opposite directions on an object?	=
	Ans	X 1. The net force acting on the object is the difference between the two objects.	
		√ 2. The net force acting on the object is the difference between the two forces.	
		X 3. The net force acting on the object is the total of the two forces.	
		X 4. The net force acting on the object is the sum of the two objects.	
	Q.7	Which industrial policy marked the beginning of liberalisation in the Indian industry, reducing the restrictions on private	1
	Ans	companies?	
	7.110	X 2. Industrial Policy 1980	
		X 3. Industrial Policy 1977	
		★ 4. Industrial Policy 1956	
		Ti S (1) P	=
	Q.8 Ans	The first Indian woman to hold the Under-20 World Wrestling Championship is	
		X 2. Pranati Nayak	
		★ 3. Swati Sanjay	
		★ 4. Hina Khalifa	
		The state of the state of the Books of the B	=
	Q.9	The name of the strait between the Pacific and Arctic oceans, separating the Chukchi Peninsula of the Russian Far East from the Seward Peninsula of Alaska, is the:	
	Ans	X 1. Davis Strait	
		X 2. Florida Strait	
		√ 3. Bering Strait	
		X 4. Messina Strait	
	Q.10	Which Committee identified the existence of legal provisions for implementation of some of the Fundamental Duties?	
	Ans	★ 1. Justice Mulla Committee	
		√ 2. Justice Verma Committee	
		X 3. Justice Sapre Committee	
		X 4. Justice VR Krishna lyer Committee	
	Q.11	'Ungalil Oruvan' (One Among You) is the autobiography of which of the following chief ministers?	
	Ans	√ 1. MK Stalin	
		X 2. K Chandrashekhar Rao	
		X 3. Basavaraj BommaiX 4. Pinaravi Vijavan	
	1	🔥 4. Finalayi vijayan	1.1



India's exports in 2020Value in million US SElectronics720Cotton680Jewellery500Steel450	
Cotton 680 Jewellery 500 Steel 450	
Jewellery 500 Steel 450	
Steel 450	
Software 850	
✓ 2. 15.63%✗ 3. 15.78%	
× 4. 14.34%	_
Q.5 One year ago, the age of B was twice that of A. After 9 years, if the ratio of the ages of B and A would be 4 : 3, 1 of their present ages is years.	then the sum
Q.5 One year ago, the age of B was twice that of A. After 9 years, if the ratio of the ages of B and A would be 4 : 3, 1	then the sun

Q.23 What is iGOT launched by the Government of India in April 2020? 1. Online training portal for COVID-19 management

Q.24 The Pratiharas who first had their capital at Bhinmal gained prominence during the rule of:

In India, Teachers' Day is celebrated annually on September 5 to mark the birthday of:

Ramu lent ₹3,000 to Raju and a certain sum to Ravi at the same time and at the same rate of simple interest of 8% per annum. After 5 years, he received a sum of ₹1,600 from Raju and Ravi together as interest. Find the sum lent to Ravi.

If two straight lines are coinciding with each other, then the number of points of intersection is/are:

X 2. Online portal for scholarships to single girl child

X 3. Online portal for digital payments ★ 4. Online portal for social security schemes

1. Nagabhatta I

X 1. APJ Abdul Kalam X 2. Sardar Vallabhbhai Patel 3. Sarvepalli Radhakrishnan X 4. Subash Chandra Bose

Section Quantitative Applitude

1. ₹1,000 **X** 2. ₹1,250 **X** 3. ₹1,200 **X** 4. ₹1,500

1. infinitely many points of intersection

 $iggreat{ imes}{2}$ 2. finite number of point of intersection

X 3. no points of intersection X 4. unique point of intersection

Simplify $\frac{1+\sin\theta-\cos\theta}{1+\sin\theta+\cos\theta}$.

 \times 1. $\cos \frac{\theta}{2}$

X 2. Nagarjuna X 3. Devpala X 4. Kanishka

Ans

Ans

Q.25

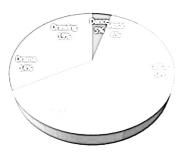
Ans

Q.2

Ans

- Q.7 Study the given pie chart carefully and answer the question that follows.
 - The given pie chart depicts the expenditure incurred towards different hobby classes of an institute.

Expenditure in thousands



■Dance □ Music □ Guitar Keyboard □ Drama □ Drawins

If the total expenditure is ₹10,70,000, then find the central angle of the sector representing 'drawing'.

Ans

- 🗸 1. 19°
- X 2.90°
- √ 3. 68.4°
- X 4.70°

Q.8

If $10 \sin^2 \theta + 6 \cos^2 \theta = 7$, $0 < \theta < 90^\circ$, then find the value of $\tan \theta$.

Ans

- X 1. √3
- X 2. 1
- $\sqrt{3}$. $\frac{1}{\sqrt{3}}$
- \times 4. $\frac{1}{2}$
- Q.9 The ratio of the length, the breadth, and the height of a solid cuboid is given as 3:2:1, and the breadth of this cuboid is given as 12 cm. Find the volume (in cm³) of the cuboid.

Ans

- X 1. 1250
- 2. 1296
- **X** 3. 1200
- **X** 4. 1500
- Q.10 The angles of a triangle are in the ratio 1:2:3. The difference in the largest and smallest angle is (in degrees):

Ans

- √ 1.60
- X 2. 15
- X 3.45
- **X** 4. 30
- Q.11
- If A = 15°, then what is the value of $\frac{11\sqrt{2} \cos 3A + 10 \sin 2A}{7\sqrt{3} \sin 4A}$?

Ans

- \times 1. $\frac{11}{2}$
- \times 2 $\frac{21}{}$
- 32
- 21
- Q.12 The ratio of two numbers is 2 : 5 and their difference is 210. The smaller number is _

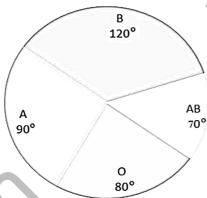
Ans

- X 1.60
- X 2. 150
- √ 3. 140
- **X** 4. 350

Q.13 If the market price of a bag is 25% above the cost price, and a discount of 18% is declared on it, then find the gain percentage.

- Ans X 1. 1.5%
 - × 2. 2.0%
 - X 3. 3.0%
 - √ 4. 2.5%

Q.14 The given pie-chart shows the data on A, B, O, and AB blood groups of 240 donors. Study the chart and answer the question that follows.



What is the ratio of the average donors of blood groups 'A', 'O', and 'AB' to the donors of blood group 'B'?

- Ans X 1.3:4
 - X 2.4:3
 - √ 3. 2:3
 - X 4.1:3

Q.15 Pipe A can fill a cistern in 4 hours and Pipe B can fill the same cistern in 5 hours. Pipe C can empty a full cistern in 3 hours. If all three pipes are opened together, then the time (in minutes) taken to fill the tank is: (round to the nearest minute)

- Ans
- X 1.625
 - × 2.445 × 3.800
 - √ 4. 514

Q.16 The number of students in a class who have answered correctly, incorrectly, or not attempted each question in an examination is shown in the table below. The marks for each question are also listed. There is no negative or partial marking.

Q. No	Marks	Answered correctly	Answered incorrectly	Not attempted
1	1	20	10	10
2	2	15	15	10
3	5	20	20	0
4	10	12	15	13

Find the average of the marks obtained by the class in the examination.

- **Ans** 🗳 1. 6.75
 - × 2. 6.25
 - X 3. 5.25
 - X 4. 5.75

If a + b = c, then the expression $a^3 + b^3 - c^3 + 3$ abc will be equal to:

- **Ans** 🗳 1. 0
 - **X** 2. 3
 - X 3.2
 - X 4.1

Q.18 The income of a person is ₹16,500, and his expenditure is ₹12,000. Next year, his income increases by 24% but his expenditure decreases by 10%. The percentage increase (rounded off to the nearest integer) in his savings is:

- An
- X 1. 90%
- X 2. 120%
- √ 3. 115%
- X 4. 95%

Q.19 Let ABC be a triangle. If the mid-points of AB, BC and AC are D, E and F, respectively, then \(\DEF \) is NOT congruent to

- Ans X 1. ∆BDE
 - **X** 2. ∆ECF
 - X 3. ∆ADF
 - √ 4. ∆ABC

```
Q.20 If 436P5 is divisible by 3, then the largest value of P is:
          X 1. 12
  Ans
          X 2.6
          X 3.8
{}^{Q}In \triangle ABC, AB = 6 cm, BC = 9 cm and AC = 12 cm. If AD is the angle bisector of \angleBAC, where D i
  X 1.9
   2.6
   X 3.3
   X 4.7
 Q.22
       Which composite number can divide the sum of the first 12 natural numbers?
  Ans
          X 2. 12
           X 4.8
        A line cuts two concentric circles. The length of chords formed by this line on the circles is 6 cm and 18 cm. Find the
 Q.23
         difference in the squares of the radii of two circles.
  Ans
          X 1.90
          X 2. 120
          X 3.60
           4. 72
        A class of 30 students appeared in a test. The average score of 12 students is 62, and that of the rest is 78. What is the
 Q.24
         average score of the class?
  Ans
          X 1.72.6
          X 2.69.6
          X 3.70.6
           4.71.6
        A policeman is chasing a thief at a speed of 82 km/h. The thief is 1300 m away and is running at a speed of 64 km/h. In how
 Q.25
         much time will the policeman catch the thief if both are riding on bikes?
  Ans
          X 1.350 sec

√ 2. 260 sec

          X 3. 250 sec
          X 4.300 sec
Section English Compression
        The given sentence is divided into four segments. Select the option that has the segment with a grammatical error. Jerry driving / home late / when the incident / took place.
  Q.1
          X 1, took place.
  Ans
          X 2, when the incident
           3. Jerry driving
          X 4. home late
        Select the INCORRECTLY spelt word.
  Q.2
  Ans
          X 1. Possession
           2. Unfourseen
          X 3. Referred
          X 4. Weather
         Select the most appropriate synonym of the given word.
  Q.3
        Evoke
  Ans
           1. Induce
          🗶 2. Abandon
          X 3. Divert
          X 4. Reduce
  Q.4
         Select the most appropriate synonym of the word in brackets to fill in the blanks.
         The soldiers spent long period ___
  Ans
          X 1. attacking
          X 2. travelling
           3. recovering
          X 4. ailing
```

	Q.5 Ans	Select the correctly spelled sentence.	
	Alis	√ 1. The restaurant serves delicious meals. X 2. The resturguest convex delicious meals.	
		X 2. The resturaunt serves delisious meals.X 3. The resturant serves deliscious meals.	
		X 4. The resteraunt serves delicious meals.	
	Q.6	Select the most appropriate ANTONYM of the given word. Intelligible	
	Ans	★ 1. Scriptable	
		X 2. Embezzle	
		√ 3. Incoherent	
		★ 4. Deliberate	
	Q.7	The following sentence has been divided into four segments. Identify the segment that contains a grammatical error.	
	Ans	The lions became violently / when the visitors / started throwing / stones at them. X 1. stones at them.	
	Alls	✓ 2. The lions became violently	
		★ 3. started throwing	
		★ 4. when the visitors	
	0		
	Q.8	Select the word which means the same as the group of words given.	
	Ano	Essence or main point of any passage, lecture or book	
	Ans	✓ 1. GistX 2. Significance	
		★ 3. Meaning	
		★ 4. Heart	
		7,	
*	Q.9	Select the most appropriate synonym of the given word. Grotesque	
	Ans	X 1. Shameful	
		X 2. Comely	
		√ 3. Ugly	
		★ 4. Spontaneous	
	Q.10	Select the most appropriate option that can substitute the underlined segment in the given sentence.	
		Arushya purchased the most good of all the suits kept in the shop.	
	Ans		
		√ 2. the best	
		★ 3. the more good	
		★ 4. the good	
	Q.11		
	Ans	Loving X 1. Subordinate	
		✓ 2. Affectionate	
		★ 3. Rejuvenate	
		X 4. Offish	
	Q.12	2 Select the option that can be used as a one-word substitute for the underlined group of words. We, as human beings, have a tendency of believing in the things that can be seen and touched.	11
	Ans	S X 1. impalpable	
		X 2. spiritual	
		X 3. inexpressible	
		√ 4. tangible ———————————————————————————————————	
	Q.13	3 Select the most appropriate idiom to fill in the blank.	
		After months of dedication and effort, I finally completed the marathon. I can really for this	
	Ans	accomplishment.	
		X 2. up a creek without a paddle	
		X 3. blow hot and cold	
		√ 4. pat myself on the back	
	Q.1	The leader of the Legislative Assembly won the hearts of the members through his maiden speech during the session in	
47.	Ans	State Council.	
		X 2. closure speech	
		✓ 3. first speech	
		★ 4. logical speech	
	L	CODDED CONTROL OF THE PROPERTY	

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Q.15 Select the most appropriate option that can substitute the underlined segment in the given sentence.
       Even if you've never heard his name, you've probably met someone with his words tattooed in their skin or heard them sung
       at a music concert.
Ans
        X 1. tattooed through their skin
         X 2. tattooed until their skin
         X 3. tattooed overdoing their skin
         4. tattooed on their skin
Q.16
       Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
        A. at the same time giving happiness to the poor
       B. by providing them with food, clothes, money or grain
        C. festivals in India are celebrated to share happiness
       D. by being in the presence of the members of the family and
Ans
         X 1. ACBD
         X 2. CBAD
         X 3. CABD
         A. CDAB
       Select the option that expresses the given sentence in passive voice.
       The chef prepares the meal with great care.
Ans

    The meal was prepared with great care by the chef.

         2. The meal will be prepared with great care by the chef.
             3. The meal is prepared with great care by the chef.
         4. The meal has been prepared with great care by the chef.
Q.18
       Select the most appropriate synonym of the given word.
       Necessary
Ans
         X 1. Potential
         2. Essential
         X 3. Existential
         X 4. Spatial
Q.19
       Select the option that expresses the following sentence in active voice.
        The novels of Dickens are being read by Mayank.
Ans
         1. Mayank is reading the novels of Dickens.
         2. Mayank has been reading the novels of Dickens
         3. Mayank was reading the novels of Dickens.
         Select the option that can be used as a one-word substitute for the given group of words.
       Fear of snakes
Ans
        X 1. Claustrophobia
         X 2. Syngenesophobia
         X 3. Xenophobia
         4. Ophidiophobia
       Comprehension:
       In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the
       questions that follow, to fill in each blank.
       Listening starts with hearing but goes (1)
                                                              . Hearing, in other words, is necessary, but is not a sufficient (2)
       for listening. Listening involves hearing with attention. Listening is a process that (3)_
                                                                                                        concentration. While listening, one
       should also be observant. In other words, listening has to do with the ears, (4)_
                                                                                                    with the eyes and the mind. Listening is
       to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good
       communication is essentially a/an (5)_
                                                          process.
       SubQuestion No: 21
Q.21
       Select the most appropriate option to fill in blank number 1.
Ans
         X 1. towards
         X 2. across
          3. beyond
         X 4. throughout
       In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the
       questions that follow, to fill in each blank
       Listening starts with hearing but goes (1) ... Hearing, in other words, is ne for listening. Listening involves hearing with attention. Listening is a process that (3) should also be observant. In other words, listening has to do with the ears, (4) ...
                                                              Hearing, in other words, is necessary, but is not a sufficient (2)
                                                                                                        concentration. While listening, one
                                                                                                    with the eyes and the mind. Listening is
       to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good
       communication is essentially a/an (5)
       SubQuestion No: 22
Q.22
       Select the most appropriate option to fill in blank number 2.
         X 1. place
         X 2. decorum
          3. condition
```

X 4. scenario

	Comprehension:
	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the questions that follow, to fill in each blank.
	Listening starts with hearing but goes (1) Hearing, in other words, is necessary, but is not a sufficient (2)
	for listening. Listening involves hearing with attention. Listening is a process that (3) concentration. While listening, one should also be observant. In other words, listening has to do with the ears, (4) with the eyes and the mind. Listening is
	to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good
	communication is essentially a/an (5) process.
	SubQuestion No: 23
Q.23	Select the most appropriate option to fill in blank number 3.
Ans	√ 1. calls for
	★ 2. disposes of
	★ 3. takes for
	★ 4. brings up
	Out with a main and a
	Comprehension: In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the
	guestions that follow, to fill in each blank.
17	Listening starts with hearing but goes (1) Hearing, in other words, is necessary, but is not a sufficient (2) for listening. Listening involves hearing with attention. Listening is a process that (3) concentration. While listening, one
	should also be observant. In other words, listening has to do with the ears, (4) with the eyes and the mind. Listening is
	to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good communication is essentially a/an (5) process.
	SubQuestion No: 24
Q.24	Select the most appropriate option to fill in blank number 4.
Ans	★ 1. although
	X 2. rather
	√ 3. as well as
	★ 4. yet
	7(4.50.
	Comprehension:
	In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option, in the
	questions that follow, to fill in each blank. Listening starts with hearing but goes (1) Hearing, in other words, is necessary, but is not a sufficient (2)
	for listening involves hearing with attention. Listening is a process that (3) concentration. While listening, one should also be observant. In other words, listening has to do with the ears, (4) with the eyes and the mind. Listening is
	to be understood as the total process that involves hearing with attention, being observant and making interpretations. Good
	communication is essentially a/an (5) process.
	SubQuestion No : 25
Q.25	Select the most appropriate option to fill in blank number 5.
Ans	X 1. onerous
	💢 2. obnoxious
	√ 3. interactive
	★ 4. pecuniary
14	
"	