Combined Graduate Level Examination 2024 Tier I

Exam Date	23/09/2024	
Exam Time	12:30 PM - 1:30 PM	
Subject	Combined Graduate Level Examination Tier I	7

Section: General Intelligence and Reasoning

Q.1 Select the set in which the numbers are related in the same way as are the numbers of the given sets.

(3, 9, 27)

(4, 16, 64)

(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 /deleting /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 X 1. (6, 36, 84)

X 2. (9, 81, 731)

X 3. (5, 25, 120)

4. (7, 49, 343)

Q.2 What will come in place of the question mark (?) in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

 $6408 \times 8 + 27 - 15 \div 10 = ?$

Ans

X 1. 923

2. 924

X 3. 921

X 4. 922



Q.3 Six letters V, C, R, E, X and Z are written on different faces of a dice. Two positions of this dice are shown in the figures below. Find the letter on the face opposite to C.





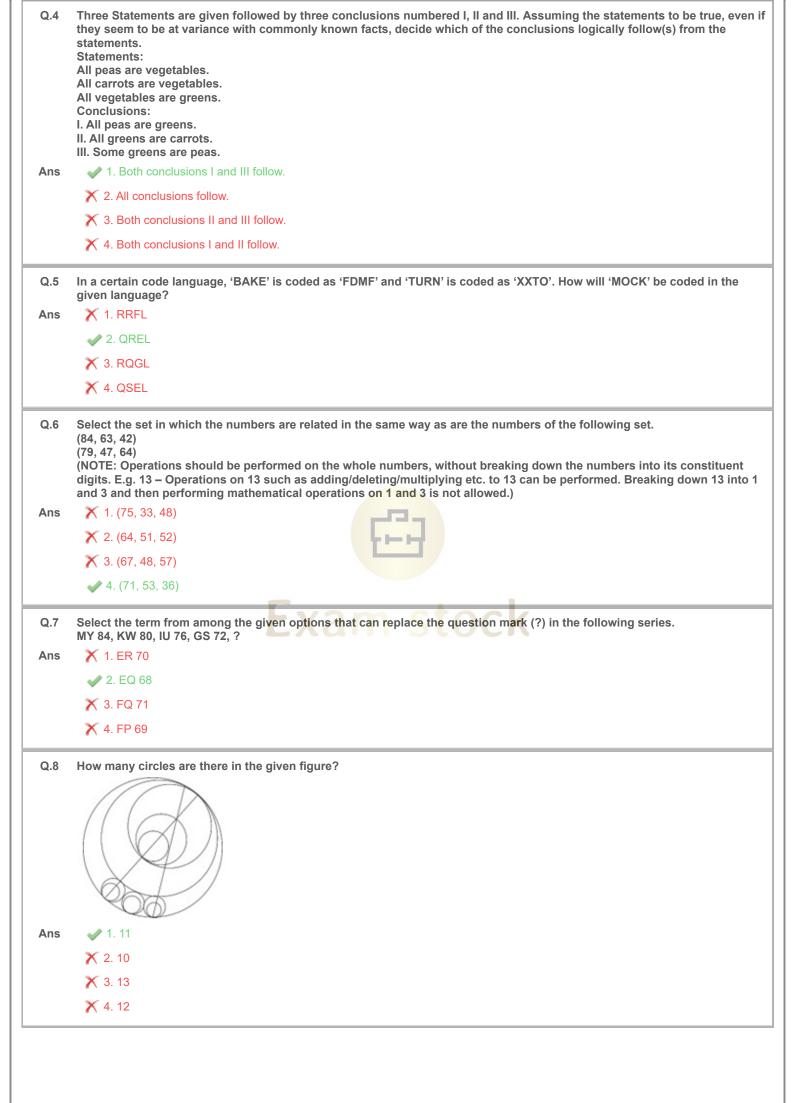
Ans

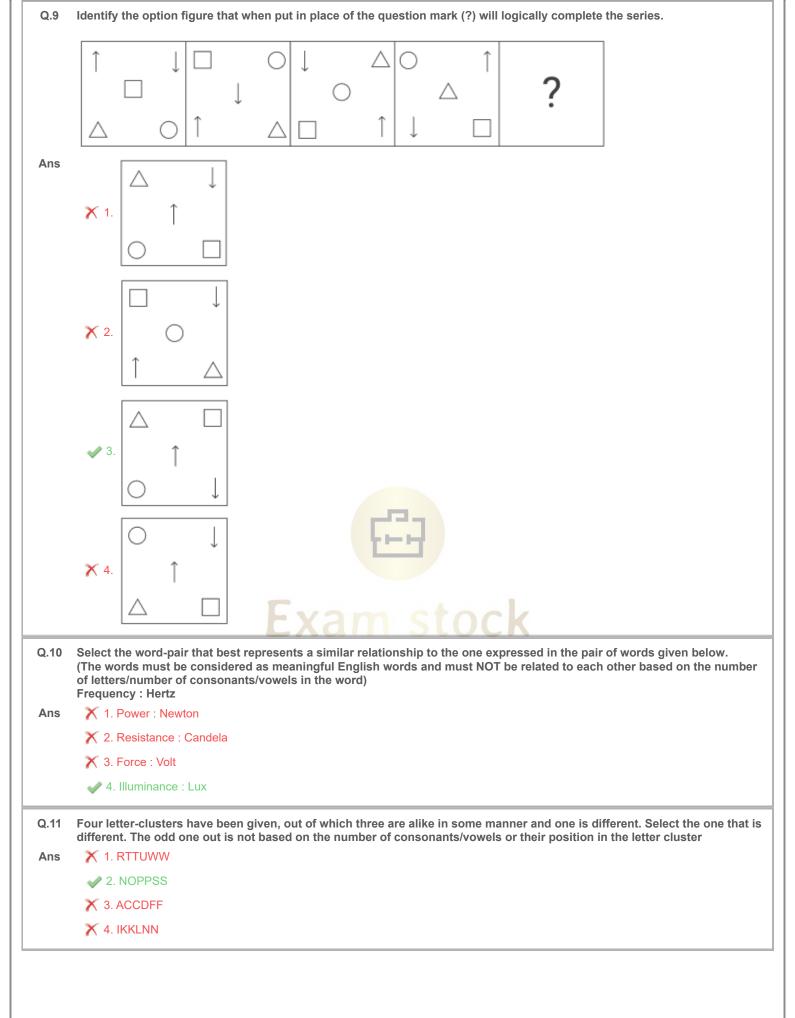
🥒 1. X

X 2. R

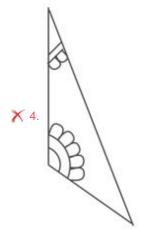
X 3. V

X 4. Z





Q.12 Select the option figure that will replace the question mark (?) in the figure given below to complete the pattern. Ans Exam stock



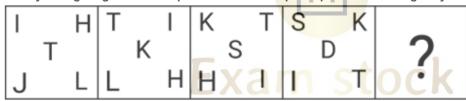
Q.13 Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



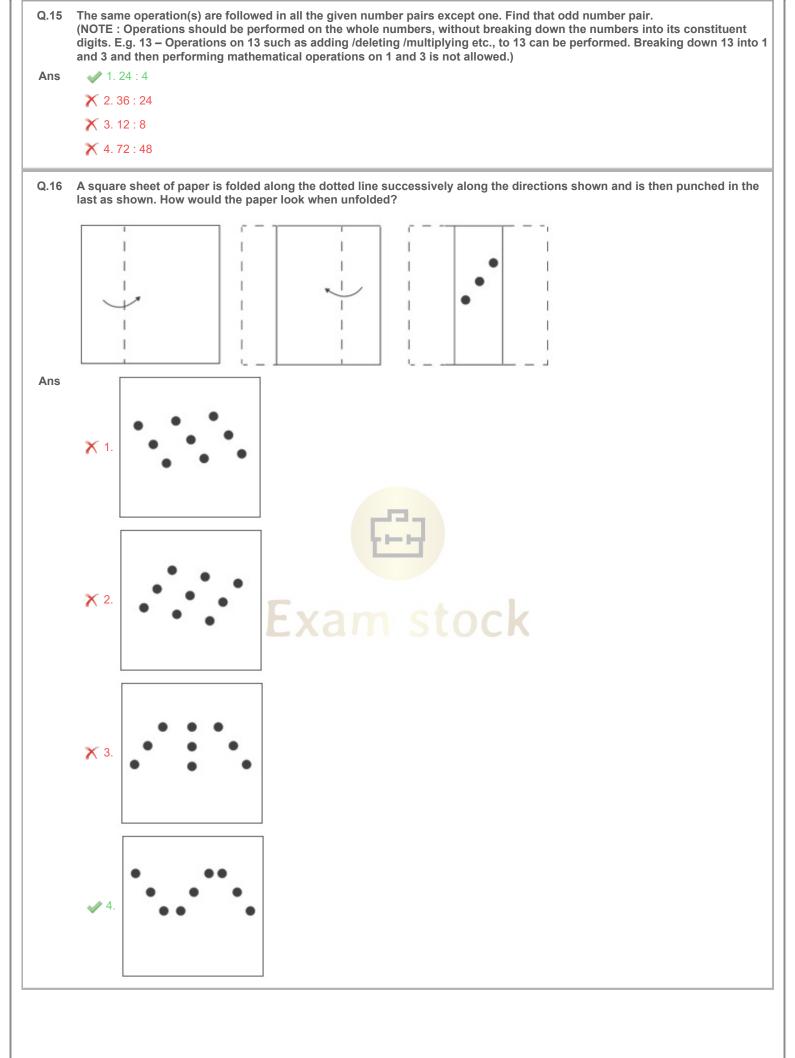
Ans

- 46KmE1V
- 4 X 8 m E .5 X
- 46KWE.EX
- 4 E m X a 4

Q.14 Identify the figure given in the options which when put in place of ? will logically complete the series.



Ans



Q.17	The position of how many letters will remain unchanged if each of the letter in the word 'IMPROVE' is arranged in English alphabetical order?
Ans	✓ 1. Zero
	X 2. One
	X 3. Three
	X 4. Two
Q.18	Three statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: All crows are parrots. All eagles are parrots. All parrots are birds. Conclusions: I. No crow is a bird. II. Some birds are eagles. III. All birds are crows.
Ans	1. Only conclusion II follows.
	2. Either conclusion II or III follows.
	X 3. All conclusions follow.
	X 4. Both conclusions I and III follow.
Q.19	Which of the following numbers will replace the question mark (?) in the given series? 81, 65, 50, ?, 23, 11
Ans	★ 1.37
	✓ 2.36
	★ 3.34
	★ 4.35
Q.20	Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. X _ Y_X X _ X
Ans	✓ 1.XXXYXXY
	× 2. XXYYAAX EXAM STOCK
	X 3. Y X X Y Y X X
	X 4. YYXYAXX
Q.21	In a certain code language, X + Y means 'X is the sister of Y', X - Y means 'X is the son of Y', X × Y means 'X is the husband of Y',
	X ÷ Y means 'X is the mother of Y'. Based on the above, how is T related to X if 'T + U - V × W ÷ X'?
Ans	X ÷ Y means 'X is the mother of Y'.
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Q.23	Which of the following terms will replace the question mark (?) in the given series? XJUM, VLSO, TNQQ, RPOS, ?
Ans	✓ 1. PRMU
	★ 2. QRMT
	✗ 3. PRMT
	X 4. PRNU
Q.24	In a certain code language, 'FLAKE' is written as '&2348' and 'LAKES' is written as '23@84'. How will 'S' be written in that language?
Ans	★ 1.4
	× 2. &
	★ 3.3
	√ 4. @
Q.25	Select the option in which the numbers share the same relationship as that shared by the given pair of numbers. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/deleting/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.)
	4:32 7:98
Ans	★ 1.8:192
	✓ 2. 3 : 18
	★ 3. 10 : 1000
	★ 4. 12 : 144
Section	: General Awareness
Q.1	Which of the following statements about the second five-year plan is INCORRECT?
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Ans	11 2022, who has been appointed as new Attorney General of India?	
Alla		
	X 2. Niren De	
	X 3. Mukul Rohatgi	
	✓ 4. R Venkatramani	
Q.6	Which of the following is NOT a kharif crop?	
Ans	× 1. Paddy	
	X 2. Soyabean	
	✓ 3. Wheat	
	X 4. Cotton	
	FY II COLOR	
Q.7	Which of the following is another name of vitamin C?	
Ans	★ 1. Pyridoxine	
	× 2. Pyridoxal	
	X 3. Pyridoxamine	
	√ 4. Ascorbic acid	
Q.8	Who among the following Indian classical dancers is associated with Kuchipudi?	
Ans	★ 1. Meenakshi Medhi	
	✓ 2. Vempati Chinna Satyam	
	★ 3. Sanjukta Panigrahi	
	X 4. Malavika Sarkar	
	4. Ivialavika Gaikai	
Q.9	Which of the following Sultans of Delhi primarily adopted a policy of consolidation rather than expansion?	
Ans	X 1. Ibrahim Lodi	
	✓ 2. Balban	
	X 3. Alauddin Khalji	
	X 4. Bahlol Lodi	
Q.10	Which of the following team events is included in the Target Olympic Podium Scheme?	
Ans	× 1. Tennis	
	× 2. Football	
	X 3. Cricket	
	✓ 4. Hockey	
Q.11	Articles 214 to 231 in Part VI of the Indian Constitution deal with the	
Ans	✓ 1. High Courts	
	× 2. District Courts	
	★ 3. Subordinate Courts	
	X 4. Supreme Court	
Q.12	Which of the following ministries launched the PM Daksh scheme?	
Ans	★ 1. Ministry of Education	
	× 2. Ministry of Electronics and Information Technology	
	✓ 3. Ministry of Social Justice and Empowerment	
	X 4. Ministry of Food Processing Industries	

Q.13	is often touted as Tansen of the 20 th century, this musical genius blended the best of classical music and created a unique style of his own.
Ans	★ 1. Ustad Ali Baksh Khan
Allo	✓ 2. Bade Ghulam Ali Khan
	★ 3. Mubarak Ali Khan
	X 4. Barkat Ali Khan
	7 Bankatziii Kilali
Q.14	How many ICC World Cups has India won in ODI?
Ans	X 1.1
	★ 2.3
	✓ 3. 2
	★ 4.4
Q.15	Who first stated the principle of refraction that postulates that every substance has a specific bending ratio – 'refractive index'?
Ans	★ 1. Dennis Gabor
	× 2. Thomas Young
	X 4. David Brewster
Q.16	Coir conductor Coomi Nariman Wadia was awarded with which of the following awards by the Government of India in 2023?
Ans	X 1. Padma Bhushan
	× 2. Padma Vibhushan
	X 3. Bharat Ratna
	✓ 4. Padma Shri
	I H
Q.17	Who published Systema Naturae in 1735 classifying the three kingdoms of nature and outlining the sexual system for the classification of plants?
Ans	X 1. Carl Woese
	X 2. Robert Whittaker EXAM STOCK
	X 3. Ernst Haeckel
	✓ 4. Carolus Linnaeus
Q.18	When a person is NOT paying anything for public goods, it is known as
Ans	★ 1. non-excludable
	× 2. rivalrous
	✓ 3. free rider
	× 4. private good
0.40	In 1026. The Independent Lebeur Dorty was founded by
Q.19 Ans	In 1936, The Independent Labour Party was founded by 1. Mohan Singh Bhakhna
7	✓ 2. BR Ambedkar
	X 3. Bal Gangadhar Tilak
	X 4. Bhagat Singh
	FY II Dinagat Origin
Q.20	Which of the following is NOT a tributary of Ganga?
Ans	★ 1. Yamuna The state of
	X 2. Gandak
	X 3. Kosi
	✓ 4. Lohit

Q.21	The most common rainfall measurement is the total rainfall depth during a given period, which is expressed in
Ans	X 1. kilopascal (kPa)

- 2. millimetres (mm)
- X 3. hectopascal (hPa)
- X 4. millibar (mbar)

Q.22 Kati Bihu is celebrated in which of the following months in Assam?

Ans

- 2. October
- X 3. January
- X 4. November

Q.23 With reference of Ajivikas, consider the following statements.

- a) Makkhali Gosala was the prominent teacher of this sect.
- b) Ajivikas believed in fatalism.

Which of the above statements is/are correct?

1. Both a and b Ans

- X 2. Neither a or b
- X 3. Only b
- X 4. Only a

Being the President of the Indian National Congress, who among the following had called for complete independence from Q.24 the British Raj in 1929?

Ans 1. Jawaharlal Nehru

- X 2. Subhas Chandra Bose
- X 3. Sardar Vallabhbhai Patel
- X 4. Mahatma Gandhi



Q.25 Which Article in the fundamental duty is invoked when you see in a private party that the Indian flag has been used as a covering for the speaker's desk? Exam stock

X 1. Article 51A (c)

- X 2. Article 51A (d)
- 3. Article 51A (a)
- X 4. Article 51A (b)

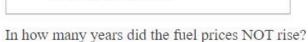
Section: Quantitative Aptitude

If
$$\sin A - \cos A = \frac{\sqrt{3} - \sqrt{2}}{2}$$
, then the value of $\sin A \cdot \cos A$ is:

Ans

Ans

- \times 1. $\frac{2\sqrt{3}-1}{4}$
- \times 2. $\frac{2\sqrt{2}-1}{9}$
- $\sqrt{3}$. $\frac{2\sqrt{6}-1}{8}$
- \times 4. $\frac{3\sqrt{2}-1}{4}$



X 2. 1

X 3. 2

X 4.5

Q.3 The least number which must be subtracted from 7278745 so as to obtain a sum that is divisible by 11 is:

Ans

X 1.3

2. 1

X 3.5

X 4. 2

Q.4 A motorboat, whose speed in 15 km/h in still water goes 50 km downstream and comes back in a total of 7 hours 30 minutes. The speed of the stream (in km/h) is:

Ans

X 1. 9

2. 5

X 3. 11

X 4.7

Exam stock

Q.5 The length, breadth and height of a room is 15 m, 9 m, and 5 m, respectively. From each can of paint 40 square metre of area is painted. How many cans of paint will be needed to paint only the walls of the room?

Ans

X 1. 12

2.6

X 3.4

X 4.8

Q.6 The distance between the longest chord and the centre of a circle is:

Ans

1. equal to zero unit

X 2. equal to the diameter

X 3. equal to the half of the radius

X 4. equal to the radius

Q.7 The marked price of 55 items was equal to the cost price of 99 items. The selling price of 56 items was equal to the marked price of 35 items. Calculate the profit or loss percentage from the sale of each item.

Ans

X 1. 15% profit

X 2. 12.25% profit

√ 3. 12.5% profit

X 4. 12.5% loss

Q.8 In an election between two candidates, P received 42% of the valid votes and Q won by 45,360 votes. 20% people did not cast their vote. If 10% of the votes cast were found invalid, what is the total number of votes registered in the poll booth?

Ans

1. 3,93,750

X 2. 3,59,000

X 3. 3,93,600

X 4. 3,53,790

Q.9 Hema is 20 years old and her sister Neha is 30 years old. How many years ago were their ages in the ratio of 3:5?

Ans

1.3

X 2. 2

X 3. 7

4. 5

Q.10 AB is the chord of the circle with centre O. A line segment DOC originating from a point D on the circumference of the circle in major segment meets AB produced at C such that BC = OD. If angle BCO = 30°, then angle AOD is:

Ans

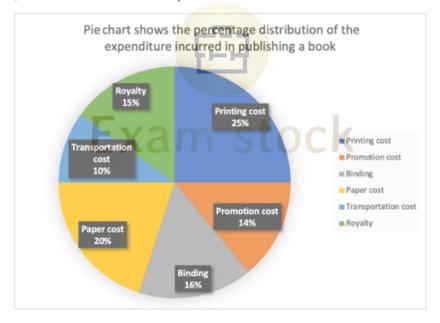
X 1. 30°

√ 2. 90°

X 3. 60°

× 4. 80°

Q.11 The following pie chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie chart and answer the question that follows.



If the expenditure on royalty in publishing certain number of books be₹43,500, then what is the combined expenditure (in ₹) on transportation, binding and printing?

Ans

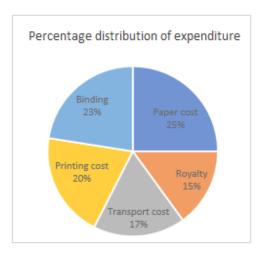
× 1.1,97,900

× 2.1,79,400

× 3.1,79,900

4.1,47,900

Q.12 The given pie-chart shows the percentage distribution of the expenditure incurred in publishing a book.



What is the central angle of the sector corresponding to the expenditure incurred on binding?

Ans

Q.13

Simplify:

$$25 - (18 - 4 \times 9 \div 3)$$

Ans



Q.14 XAB and XCD are two secants to a circle. If XA = 18 cm, AB = 22 cm and XC = 24 cm, then find the value of XD (in cm).

LAGIII STUCK

Ans

Q.15 Study the below table and answer the question that follows.

Day of the week	Distance jogged (in km)
Monday	6
Tuesday	5.5
Wednesday	5.5
Thursday	7
Friday	5
Saturday	3.5
Sunday	7.5

If 300 calories are burned by jogging 6 km, then how many calories were burnt in the given week?

Ans

X 1. 1600

X 2. 2200

X 3. 1800

4. 2000

Q.16 If $\cos A + \cos^2 A = 1$ then $\sin^2 A + \sin^4 A$ is equal to:

Ans

$$\times$$
 1. $\frac{\cos^2 A}{\cos^A}$

X 2. 0

$$\times$$
 3. $\frac{\cos A}{\cos^2 A}$

4.1



Exam stock

Q.17 If the medians of a triangle are equal, then the triangle will be:

Ans

- 1. equilateral triangle
- X 2. obtuse angle triangle
- X 3. scalene triangle
- X 4. right angled triangle

Q.18 Find the fourth proportional to 4, 9 and 16.

Ans

X 1. 18

X 2. 27

3. 36

X 4. 16

Q.19

The value of $\frac{1}{\cos \theta - \cot \theta} - \frac{1}{\sin \theta}$ is equal to:

Ans

 \times 1. tan θ

× 2. cosec θ

√ 3. cot θ

× 4. sec θ

X 2. ₹600 X 3. ₹800 4. ₹700 Q.21 If a + b + c = 0, then the value of $(a^2 + b^2 + 2ab)$ is equal to: √ 1. c² Ans X 2. −c² **X** 3. **c** X 4. −c Q.22 The simple interest on a sum for 8 years is three-fifth of the sum. The rate of interest per annum is: Ans \times 1. $5\frac{1}{2}\%$ $\sqrt{2.7} \frac{1}{2}\%$ X 3. 6% × 4. 9% Q.23 The marked price of a bed sheet is ₹500. At the time of its sale, two successive discounts of 10% and 5% are available. Find the selling price (in ₹) of the bed sheet. Ans X 1. 432.50 2. 427.50 **X** 3. 445.00 **X** 4. 430.00 A mango juice is made by mixing water and mango concentrate in the ratio 9: 7. If x litres of water and 3x litres of mango concentrate is mixed in 160 litres of mango juice, then the new ratio becomes 13: 14. What is the quantity of the new mango juice (in litres)? X 1. 197 Ans X 2. 212 X 3. 206 4.216 Q.25 Three pipes, P, Q and R, together take four hours to fill a tank. All the three pipes were opened at the same time. After three hours, P was closed, and Q and R filled the remaining tank in two hours. How many hours will P alone take to fill the tank? Ans **1.8** X 2. 10 X 3. 12 **X** 4. 9 **English Comprehension** Q.1 Select the most appropriate synonym of the given word. **Obstinate** Ans X 1. Obedient

Ten chairs and six tables together cost ₹5,140; three chairs and two tables together cost ₹1,635. The cost of 1 chair and 1

Q.20

Ans

1. ₹900

2. Adaptive3. Stubborn4. Submissive

Q.Z	Select the most appropriate meaning of the given idioni.
	Left out in the cold
Ans	X 1. To go underground
	X 2. To be in hiding
	X 4. To be extremely negative
	A. To be extremely negative
Q.3	Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
	P. and has also created a wide gap between them
	Q. laid too much stress on
	R. teachers and students S. online mode of education has
Ans	X 1. SRPQ
	X 2. RQPS
	✓ 3. SQRP
	X 4. PSQR
Q.4	Select the option that can be used as a one-word substitute for the given group of words. A thing that can be easily carried by hands
Ans	X 1. Export
	X 2. Import
	X 3. Potable
	✓ 4. Portable
Q.5	Parts of the following sentence have been given as options. Select the option that contains an error.
	He always wants to be in the company of those w <mark>ho are intellectua</mark> lly superior than him.
Ans	✓ 1. superior than him.
	X 2. be in the company of
	X 3. He always wants to
	X 4. those who are intellectually
Q.6	Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
	O. want
	P. movie tonight Q. do you
	R. to watch S. the
Ans	X 1. RSPQO
	✓ 2. QORSP
	X 3. OSQPR
	X 4. OSPQR
	A. OSFQR
Q.7	Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
	P) always favours
	Q) only the R) fortune
	S) bold
Ans	X 1. SQPR
	✓ 2. RPQS
	X 3. SRQP
	X 4. PQRS

a idia

...

Q.8	A. Only for themselves B. Is full of C. People who live D. The world
Ans	X 1. BCAD
	X 2. ABCD
	X 3. DBAC
	✓ 4. DBCA
Q.9	Select the option that correctly expresses the given sentence in passive voice. Mr. Amar refused him admittance.
Ans	★ 1. Admittance will be refused to him by Mr. Amar.
	X 2. Admittance shall be refused to him by Mr. Amar.
	X 3. Admittance would be refused to him by Mr. Amar.
	✓ 4. Admittance was refused to him by Mr. Amar.
Q.10	Select the most appropriate meaning of the given idiom. Break the ice
Ans	★ 1. Nervousness before a performance
	X 2. Ill-feeling carried by a person over a period of time
	X 3. Respect for someone's achievements
	✓ 4. To say or do something that makes people feel more relaxed, especially at the beginning of a meeting, party
Q.11	Select the most appropriate homophone to fill in the blank. The summer was hot this year.
Ans	X 1. tow
	× 2. two
	X 3. to
	√ 4. too
Q.12	Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank. The mothers, who suffer from postpartum depression, feel by their children. (vexed)
Ans	X 1. delighted
	X 2. recovered
	X 3. pacific
	√ 4. annoyed
Q.13	Parts of the following sentence have been given as options. Select the option that contains an error. I have sing 'Let It Go' before a crowd of thousands of people.
Ans	X 1. a crowd of
	X 2. thousands of people
	✓ 3. I have sing
	X 4. 'Let It Go' before
Q.14	Select the most appropriate option to substitute the underlined segment in the given sentence. Aesthetic value is specifically a way in which we can get positive conclude value from the world at large.
Ans	★ 1. can get positive convalescent value
	X 2. can get positive convulsive value
	√ 3. can get positive conclusive value
	X 4. can get positive contrastive value

Q.15	Select the correctly spelt word to fill in the blank.
	My grandmother the preparation of every festival celebration in my house.
Ans	✓ 1. initiates
	X 2. inetiates
	★ 3. enitiates
	X 4. enetiates
Q.16	In the question, four alternatives are given for the underlined word in the sentence. Choose the alternative which best expresses the opposite meaning of the word. It was as if the newer hybrids had an <u>insatiable</u> appetite for chemicals.
Ans	✓ 1. Satisfiable
	X 2. Urgent
	X 3. Curbed
	X 4. Pressing
Q.17	Identify the most appropriate ANTONYM of the underlined word in the given sentence. Lady Stranleigh continued to smile at him <u>brilliantly.</u>
Ans	X 1. Brightly
	✓ 2. Dimly
	X 3. Cunningly
	X 4. Strangely
Q.18	Select the correct spelling of the underlined word in the sentence. Can you please come back to reality from the fectitious world you live in?
Ans	X 1. factitious
	× 2. fractional
	X 3. factional
	✓ 4. fictitious
Q.19	Select the most appropriate ANTONYM of the given word. Purify
Ans	★ 1. Chant
	× 2. Invite
	✓ 3. Pollute
	X 4. Wash
Q.20	Select the option that expresses the given sentence in active voice.
Ans	Trigonometry has been taught by him for donkey's years. 1. He had been teaching trigonometry for donkey's years.
,	X 2. He has been trigonometry teaching for donkey's years.
	X 3. He is teaching trigonometry for donkey's years.
	✓ 4. He has been teaching trigonometry for donkey's years.
	T. He has been teaching digenometry for definely a years.

	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. Music is perhaps the most popular and widely practised (1) of fine arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is (2) to master and almost impossible to perfect, and music is no exception.
	Nature, it is learnt, has blessed almost two-thirds of the human race with musical ability of some sort. Music has the power to (3) out the deepest emotions. In fact, it is a magic medicine, and many seek refuge in it when they are depressed or stressed.
	It is this intimacy that makes us listen to music (4) even hum or sing sometimes. This singing, or realistically speaking,
	expressing one's emotion musically sometimes takes a serious turn. The desire to sing before an audience is innocent and beautiful, and indeed, it is perfectly alright to have such a genuine desire. But it
	is also important to understand that singing is an (5) art—a highly refined one at that, which requires systematic, prolonged and strict training to be acceptable.
	SubQuestion No : 21
Q.21	Choose the most appropriate option to fill in blank no. 1.
Ans	X 1. format
	X 2. substance
	X 4. design
	Comprehension:
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	and strict training to be acceptable.
	SubQuestion No : 22
Q.22	Choose the most appropriate option to fill in blank no. 2.
Ans	✓ 1. difficult
	X 2. irksome
	A 2. indome
	X 3. serious X 4. easy Exam stock
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	SubQuestion No : 24
Q.24	Choose the most appropriate option to fill in blank no. 4.
Ans	√ 1. or
	X 2. neither
	X 3. nor
	X 4. either
	T. Cition
	Comprehension:
Q.25 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. Music is perhaps the most popular and widely practised (1) of fine arts, transcending all kinds of cultural and linguistic barriers. Any form of fine art is (2) to master and almost impossible to perfect, and music is no exception. Nature, it is learnt, has blessed almost two-thirds of the human race with musical ability of some sort. Music has the power to (3) out the deepest emotions. In fact, it is a magic medicine, and many seek refuge in it when they are depressed or stressed. It is this intimacy that makes us listen to music (4) even hum or sing sometimes. This singing, or realistically speaking, expressing one's emotion musically sometimes takes a serious turn. The desire to sing before an audience is innocent and beautiful, and indeed, it is perfectly alright to have such a genuine desire. But it is also important to understand that singing is an (5) art—a highly refined one at that, which requires systematic, prolonged and strict training to be acceptable. SubQuestion No : 25 Choose the most appropriate option to fill in blank no. 5. X 1. uncomplicated X 2. uniform X 3. mixed
	✓ 4. intricate







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