

IRDA Mock Test 1

Q.1. An employee may claim ₹7 for each kilometer when he travels by taxi and ₹6 for each kilometer if he drives his own car. If in one week he claimed ₹675 for travelling 90 kilometers, how many kilometers did he travel by taxi?

1. 170
2. 155
3. 162
4. 135

Q.2. A bonus of ₹1000 is to be divided among three people so that Rajat gets twice as much as Suraj, who receive $\frac{1}{5}$ as much as Ganga. How much money should Ganga receive?

1. ₹625
2. ₹375
3. ₹250
4. ₹100

Q.3. In an examination, preeti scores 4 marks for every correct answer and loses 1 mark for every wrong attempt. If she attempted all 200 questions and scored a total of 200 marks. The number of questions she answered correctly was?

1. 68
2. 80
3. 60
4. 82

Q.4. 1250 Oranges were distributed among a group of students in a class. Each student got twice as many oranges as the number of students in that group. What is the number of student in that group?

1. 45
2. 50
3. 25
4. 100

Q.5. The average sale of a car dealership is 15 cars per week. After the promotion the average sale increased to 21 cars per week. What is the percentage increase in the sales of the car?

1. 140%
2. 40%
3. $42\frac{6}{7}\%$
4. 39.33%

Q.6. Four years ago, the average age of a family of four people was 18 years. During this period, a baby was born. Today if the average age of the family is still 18 years, then what is the age of the baby?

1. 2 years
2. 3 years
3. 1.2 years
4. 2.5 years

Q.7. A number consists of two digits whose sum is 9. If 63 is subtracted from the number the digits are interchanged. What is the number?

1. 63
2. 72
3. 81
4. 96

Q.8. The difference between two positive integers is 3. If the sum of their square is 369, then the sum of the number is?

1. 81
2. 33
3. 27
4. 25

Q.9. The sum of the squares of three numbers is 138, while the sum of their products taken two at a time is 131. What is the sum?

1. 30
2. 20
3. 40
4. 50

Q.10. Reena's age after 6 years will be $\frac{3}{7}$ th of her father's age. 10 years ago, the ratio of their ages was 1 : 5. What is the father's age at present?

1. 45 years
2. 50 years
3. 56 years
4. 62 years

Direction 11-13 Read the information carefully and answer the questions following.

Radha and Saurav are a married couple having two daughters, Mehak and Dhaani. Dhaani is married to Avi who is the son of Garimal and Taran. Neetu is the daughter of Avi. Kirti, who is Avi's sister, is married to Harsh and has two sons Zenith and Parth. Parth is the grandson of Garima and Taran.

Q.11. How is Kirti related to Dhaani?

1. Sister
2. Sister-in-law
3. Aunt
4. Grandmother

Q.12. What is the relation between Zenith and Neetu?

1. Husband-wife
2. Father-daughter
3. Uncle-niece
4. Cousins

Q.13. Which of the following statements is true?

1. Taran is Dhaani's maternal uncle.
2. Garima is Harsh's Mother-in-law
3. Zenith is son of Mehak
4. Neetu is cousin of Kirti

Q.14. In a certain code CHILDREN is written as 24859670 and CHARACTER is written as 241612376. Then what will be the code for HIRALAL?

1. 4685151
2. 4685511
3. 4861515
4. 4861551

Q.15.

Statement:

- Some Bows are Blue.
- Some Blue are colors.
- No Color is red.

Conclusion:

- I. Some Bows are not red.
- II. Some Blue are not red.

1. Only I follows
2. Only II follows
3. Both I and II follows
4. Neither I nor II follows

Q.16.

Statement:

- All trains are Metro.
- Some Metros are tracks.
- No Track is Engine.

Conclusion:

- I. Some Trains are not Engine is a possibility.
- II. Some Engines are not Trains.

1. Only I follows
2. Only II follows
3. Both I and II follows
4. Neither I and II follows

Q.17. In the word ECONOMICAL, how many letters will remain unchanged when the letters within the word are arranged alphabetically?

1. Three
2. One
3. Two
4. Five

Q.18. if in a certain code TAURUS is written as XEYVYW. What is the word for the code KIQMRM?

1. Orange
2. August
3. Gemini
4. Shared

Directions 19- 21 In each of the sentences given below parts of the sentence are left blank and each sentence is followed by four options indicating the different ways of completing the sentence. Choose the best alternative from among the four.

Q.19. It will take some time for many South Koreans to ____ the conflicting images of North Korea, let alone to ____ what to make of their northern cousins.

1. understand, clarify
2. Reconcile, understand
3. reconcile, decide
4. make out, decide

Q.20. The manners and ____ of the nouveau riche is a recurrent ____ in the literature.

1. Morals, theme
2. Style, motif
3. Wealth, theme
4. Morals, story

Q.21. Though one eye is kept firmly on the ____, the company now also promotes ____ contemporary art.

1. Present, experimental
2. Present, popular
3. Market, popular
4. Future, popular

Directions 22-23. Sentences given in each question, when properly sequenced, form a coherent paragraph. The first and last sentences are A and F, and the four in between are labelled 1,2,3 and 4. Choose the most logical order of these four sentences to construct a meaningful paragraph.

Q.22.

A. Commercially reared chicken can be unusually aggressive, and are often kept in darkened sheds to prevent them pecking at each other.

1. In low light conditions, they behave less belligerently, but are more prone to ophthalmic disorders and respiratory problems.
2. The birds spent far more of their time — up to a third — pecking at the inanimate objects in the pens, in contrast to birds in other pens which spent a lot of time attacking others.
3. Altering the birds' environment, by adding bales of wood-shavings to their pens, can work wonders.
4. In an experiment, aggressive head-pecking was all but eliminated among birds in the enriched environment.

F. Bales could diminish aggressiveness and reduce injuries; they might even improve productivity, since a happy chicken is a productive chicken.

1. 1342
2. 3421
3. 4312
4. 3124

Q.23.

A. Horses and communism were, on the whole, a poor match.

1. Peasants from Poland to the Hungarian Pustza preferred their horses to party dogma.
2. Fine horses bespoke the nobility the party was supposed to despise.
3. Although a working horse was just about tolerable, the communists were right to be wary.
4. Communist leaders, when they visited villages, preferred to see cows and pigs.

F. "A farmer's pride is his horse; his cow may be thin but his horse must be fat," went a Slovak Saying.

1. 2314
2. 1432
3. 2431
4. 1342

Directions 24-25 In each questions, you have to choose the most logical order of sentences from among the four given choices to construct a meaningful paragraph.

Q.24.

1. The breadth of that information is great, extending over the major domains of human activity from sports to science.
2. It is by no means confined to 'culture' narrowly understood as an acquaintance with the arts.
3. Cultural literacy constitutes the only sure avenue of opportunity for disadvantaged children, the only reliable way of combating the social determinism that now condemns them.
4. Nor is it confined to one social class; quite the contrary.
5. To be culturally literate is to possess the basic information needed to thrive in the modern world.

1. 51243
2. 31245
3. 52413

4. 34251

Q.25.

1. If caught in the act, they were punished, not for the crime, but for allowing themselves to be caught another lash of the whip.
2. This consisted mainly of beatings and deprivations of all kinds like going around barefoot in winter, and worse, starvation so that they would be forced to steal food to survive.
3. The bellicose Spartans sacrificed all the finer things in life for military expertise.
4. Male children were examined at birth by the city council and those deemed too weak to become soldiers were left to die of exposure.
5. Those fortunate enough to survive babyhood were taken away from their mothers at the age of seven to undergo rigorous military training.

1. 45123
2. 35214
3. 34521
4. 45213

Answer Key

Q 1. 4	Q 2. 1	Q 3. 2	Q 4. 3	Q 5. 2
Q 6. 1	Q 7. 3	Q 8. 3	Q 9. 2	Q 10. 2
Q 11. 2	Q 12. 4	Q 13. 2	Q 14. 3	Q 15. 4
Q 16. 1	Q 17. 2	Q 18. 3	Q 19. 3	Q 20. 1
Q 21. 4	Q 22. 1	Q 23. 3	Q 24. 1	Q 25. 3

OICL AO Mock Test 1 solutions

Solution 1. Let the distance travelled by taxi be Y km.
 Then, distance travelled by own car = (90 - Y) km.
 Therefore, $7Y + 6(90 - Y) = 675$
 $Y = 675 - 540$
 $Y = 135$ km.

Solution 2. Let Ganga's share be = Y
 Then, Suraj's share = $\frac{Y}{5}$ and Rajat's share = $\frac{2Y}{5}$
 Therefore, $[(\frac{2Y}{5}) + (\frac{Y}{5}) + Y] = 1000$
 $8Y = 5000$
 $Y = 625$

Solution 3. Let the number of question answer correctly = Y
 Then, number of wrong answer = (200 - Y)
 Therefore, $4y - (200 - y) = 200$
 $5y = 400$
 $Y = 80$

Solution 4. Let the number of student in the group be = y
Then, the number of oranges given to each student on the group = $2Y$
Therefore, $Y \times 2Y = 1250$
 $2y^2 = 1250$
 $Y^2 = 625$
 $Y = \sqrt{625} = 25$

Solution 5. Number of cars sold per week originally = $15 \times 7 = 105$
Number of cars sold per week after promotion = $21 \times 7 = 147$
Increase in sale = $147 - 105 = 42$

Therefore, percentage increase in sales = $(42/105) \times 100 = 40\%$

Solution 6. Sum of the ages of 4 members, 4 years ago = $(18 \times 4) = 72$ years
Sum of the ages of 4 members now = $(72 + 4 \times 4) = 88$ years
Sum of the ages of 5 members = $(18 \times 5) = 90$ years

Therefore, age of the baby = $(90 - 88) = 2$ years

Solution. 7. Let the tens digit = Y then units digit will be $(9 - y)$
 $Y = 10y + (9 - y) = 9y + 9$
Number obtained by reversing the digit = $10(9 - y) + y = 90 - 9y$
Therefore, $(9y + 9) - 63 = 90 - 9y$
 $18y = 144$
 $Y = 8$ i.e. tens digit is 8 and units digit is 1
Hence the number is 81.

Solution 8. Let the number be Y and $(y + 3)$,
Then, $y^2 + (y + 3)^2 = 369$
 $Y^2 + Y^2 + 9 + 6Y = 369$
 $2y^2 + 6Y - 360 = 0$
 $Y^2 + 3Y - 180 = 0$
 $(y + 15)(y - 12) = 0$
 $Y = 12$, so the numbers are 12 and 15
Hence, the required sum = $(12 + 15) = 27$

Solution 9. Let the numbers be a , b , and c .
Then, $a^2 + b^2 + c^2 = 138$ and $(ab + bc + ca) = 131$
Now, $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca) = 138 + 2 \times 131 = 400$
i.e. $(a + b + c) = \sqrt{400} = 20$

Solution 10. Let reena's age 10 years ago = Y years
Then, fathers age 10 years ago was = $5y$ years
 $(y + 10) + 6 = \frac{3}{7} \times [(5y + 10) + 6]$
 $Y + 16 = \frac{3}{7}(5y + 16)$
 $7y + 112 = 15y + 48$
 $8y = 64$
 $Y = 8$
Therefore, reena's father's present age = $(5y + 10)$ i.e. $(5 \times 8 + 10) = 50$ years.

Solution 11-13

BYJU'S
The Learning App

Garima ~ Taran

$\begin{array}{ccccccc} \updownarrow & & \updownarrow & & & & \\ (-)\text{Mehak} & \leftrightarrow & \text{Dhaani} & (-) \sim \text{Avi} & (+) & \leftrightarrow & \text{Kirti} & (-) \sim \text{Harsh} \\ & & \updownarrow & & \updownarrow & & & \\ & & \text{Neetu} & & \text{Zenith} & (+) & \leftrightarrow & \text{Parth} & (+) \end{array}$

\leftrightarrow = siblings

~ = married to

(+) Male

(-) Female

C	H	I	L	D	R	E	N
2	4	8	5	9	6	7	0

C	H	A	R	A	C	T	E	R
2	4	1	6	1	2	3	7	6

H	I	R	A	L	A	L
4	8	6	1	5	1	5

A Venn diagram illustrating the relationship between three sets: Bows, Color, and Red. The set 'Bows' is represented by a circle on the left, and the set 'Color' is represented by a circle on the right. These two circles overlap, and the intersection is labeled 'Blue'. To the right of the 'Color' circle is another circle labeled 'Red'. A line connects the 'Color' circle and the 'Red' circle, but it is marked with a large 'X', indicating that there is no overlap or relationship between 'Color' and 'Red'.

E	C	O	N	O	M	I	C	A	L
A	C	C	E	I	L	M	N	O	O

Solution 18.

T A U R U S

(+4)	(+4)	(+4)	(+4)	(+4)	(+4)
X	E	Y	V	Y	W
Then,					
K	I	Q	M	R	M
(-4)	(-4)	(-4)	(-4)	(-4)	(-4)
G	E	M	I	N	I

