



भारतीय प्रबंध संस्थान इंदौर
Indian Institute of Management Indore

विद्यया ऽ मृतमश्नुते
भा. प्र. मं. इन्दौर
IIM INDORE

प्रबंधन में पाँचवर्षीय एकीकृत कार्यक्रम (आईपीएम)
Five Year Integrated Programme in Management (IPM)
(2022-27 Batch)

Participant Id	
Participant Name	
Test Center Name	
Test Date	02/07/2022
Test Time	10:00 AM - 12:00 PM
Subject	IPM AT 2022
Marks Obtained	

Section : Quantitative Ability SA

Q.1

The 3rd, 14th and 69th terms of an arithmetic progression form three distinct and consecutive terms of a geometric progression. If the next term of the geometric progression is the n^{th} term of the arithmetic progression, then n equals _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 344

Given 344

Answer :

Q.2

If $\log_{(x^2)} y + \log_{(y^2)} x = 1$ and $y = x^2 - 30$, then the value of $x^2 + y^2$ is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 72

Given 2

Answer :

Q.3

The sum of the coefficients of all the terms in the expansion of $(5x - 9)^4$ is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 256

Given 2

Answer :

Q.4

Let $P(X)$ denote power set of a set X . If A is the null set, then the number of elements in $P(P(P(P(A))))$ is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 16

Given 0

Answer :

Q.5

The numbers -16 , $2^{x+3} - 2^{2x-1} - 16$, $2^{2x-1} + 16$ are in an arithmetic progression. Then x equals _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 3

Given 3

Answer :

Q.6

The number of triangles that can be formed by choosing points from 7 points on a line and 5 points on another parallel line is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 175

Given 175

Answer :

Q.7

A new sequence is obtained from the sequence of positive integers $(1, 2, 3, \dots)$ by deleting all the perfect squares. Then the 2022nd term of the new sequence is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 2067

Given 2062

Answer :

Q.8

Mrs and Mr Sharma, and Mrs and Mr Ahuja along with four other persons are to be seated at a round table for dinner. If Mrs and Mr Sharma are to be seated next to each other, and Mrs and Mr Ahuja are not to be seated next to each other, then the total number of seating arrangements is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 960

Given **360**

Answer :

Q.9

If $A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 0 & 1 \\ 0 & 1 & 0 \end{bmatrix}$, then the absolute value of the determinant of $(A^9 + A^6 + A^3 + A)$ is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 32

Given **2**

Answer :

Q.10

The area enclosed by $2|x| + 3|y| \leq 6$ is _____ sq. units.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 12

Given **3**

Answer :

Q.11

Given that

$f(x) = |x| + 2|x - 1| + |x - 2| + |x - 4| + |x - 6| + 2|x - 10|$, $x \in (-\infty, \infty)$,
the minimum value of $f(x)$ is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 26

Given **2**

Answer :

Q.12

Let 50 distinct positive integers be chosen such that the highest among them is 100, and the average of the largest 25 integers among them exceeds the average of the remaining integers by 50. Then the maximum possible value of the sum of all the 50 integers is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 3150

Given **900**

Answer :

Q.13

Aruna purchases a certain number of apples for INR 20 each and a certain number of mangoes for INR 25 each. If she sells all the apples at 10% profit and all the mangoes at 20% loss, overall she makes neither profit nor loss. Instead, if she sells all the apples at 20% loss and all the mangoes at 10% profit, overall she makes a loss of INR 150. Then the number of apples purchased by Aruna is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 50

Given **50**

Answer :

Q.14

If $\sin \alpha + \sin \beta = \frac{\sqrt{2}}{\sqrt{3}}$ and $\cos \alpha + \cos \beta = \frac{1}{\sqrt{3}}$, then the value of $\left(20 \cos \left(\frac{\alpha-\beta}{2}\right)\right)^2$ is _____.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 100

Given **3**

Answer :

Q.15

When Geeta increases her speed from 12 km/hr to 20 km/hr, she takes one hour less than the usual time to cover the distance between her home and office. The distance between her home and office is _____ km.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 30

Given **30**

Answer :

Q.1 In a bowl containing 60 ml orange juice, 40 ml of water is poured. Thereafter, 100 ml of apple juice is poured to make a fruit punch. Madhu drinks 50 ml of this fruit punch and comments that the proportion of orange juice needs to be higher for better taste. How much orange juice should be poured into the fruit punch that remained, in order to bring up the level of orange juice to 50 percentage?

- Ans**
- 1. 40 ml
 - 2. 80 ml
 - 3. 100 ml
 - 4. 60 ml

Q.2

Suppose a, b and c are integers such that $a > b > c > 0$, and $A = \begin{bmatrix} a & b & c \\ b & c & a \\ c & a & b \end{bmatrix}$.

Then the value of the determinant of A

- Ans**
- 1. is zero
 - 2. is negative
 - 3. can be positive or negative
 - 4. is positive

Q.3

In a room, there are n persons whose average height is 160 cm. If m more persons, whose average height is 172 cm, enter the room, then the average height of all persons in the room becomes 164 cm. Then $m : n$ is

Ans

- 1. 1:3
- 2. 1:2
- 3. 2:1
- 4. 3:1

Q.4

A set of all possible values the function $f(x) = \frac{x}{|x|}$, where $x \neq 0$, takes is

Ans

✗ 1. $\{1, 0, -1\}$

✗ 2. $\{1\}$

✗ 3. $\{1, 0\}$

✓ 4. $\{1, -1\}$

Q.5

If the five-digit number $abcde$ is divisible by 6, then which of the following numbers is not necessarily divisible by 6?

Ans

✗ 1. eee

✗ 2. $bbadcacede$

✗ 3. $cdbae$


✓ 4. $edcba$

Q.6 The sum of the first 15 terms in an arithmetic progression is 200, while the sum of the next 15 terms is 350. Then the common difference is

Ans

 1. $\frac{4}{9}$

 2. $\frac{1}{3}$

 3. $\frac{7}{9}$

 4. $\frac{2}{3}$

Q.7 The lengths of the sides of a triangle are x , 21 and 40, where x is the shortest side. A possible value of x is

Ans  1. 18

 2. 20

 3. 19

 4. 16

Q.8

If one of the factors of the number $3^7 2^8 17^3$ is randomly chosen, then the probability that the chosen factor will be a perfect square is _____.

Ans

1. $\frac{1}{12}$

2. $\frac{5}{32}$

3. $\frac{3}{40}$

4. $\frac{5}{36}$

Q.9

The curve represented by the equation

$$\frac{x^2}{\sin \sqrt{2} - \sin \sqrt{3}} + \frac{y^2}{\cos \sqrt{2} - \cos \sqrt{3}} = 1$$

is

- Ans
- 1. an ellipse with the foci on the x-axis
 - 2. an ellipse with the foci on the y-axis
 - 3. a hyperbola with the foci on the x-axis
 - 4. a hyperbola with the foci on the y-axis

Q.10 When the square of the difference of two natural numbers is subtracted from the square of the sum of the same two numbers and the result is divided by four, we get

- Ans
- 1. the HCF of the two numbers
 - 2. the LCM of the two numbers
 - 3. the product of the LCM and HCF of the two numbers
 - 4. the square of the product of the two numbers

Q.11

The set of real values of x for which the inequality $\log_{27} 8 \leq \log_3 x < 9^{\frac{1}{\log_2 3}}$ holds is

Ans

1. [2,81]

2. (2,27]

3. (2,27)

4. [2,81)

Q.12

If $f(x^2 + f(y)) = xf(x) + y$ for all non-negative integers x and y , then the value of $[f(0)]^2 + f(0)$ equals _____.

Ans 1. 6

2. 2

3. 1

4. 0

Q.13 In how many ways can the letters of the word MANAGEMENT be arranged such that no two vowels appear together?

Ans 1. 21600

2. 37800

3. 75600

4. 25200

Q.14

The sum of the squares of all the roots of the equation $x^2 + |x + 4| + |x - 4| - 35 = 0$ is

Ans 1. 50

2. 175

3. 148

4. 74

Q.15

Let A and B be two sets such that the Cartesian product $A \times B$ consists of four elements. If two elements of $A \times B$ are (1,4) and (4,1), then

Ans

1. $A \times B = B \times A$

2. $A \times B \neq B \times A$

3. $\emptyset \in A \times B$

4. None of these

Q.16 In a right-angled triangle ABC, the hypotenuse AC is of length 13 cm. A line drawn connecting the midpoints D and E of sides AB and AC is found to be 6 cm in length. The length of BC is

Ans 1. 8 cm

2. 5 cm

3. 12 cm

4. $2\sqrt{3}$ cm

Q.17

Let $A = \{1, 2, 3\}$ and $B = \{a, b\}$. Assuming all relations from set A to set B are equally likely, what is the probability that a relation from A to B is also a function?

Ans

1. $\frac{1}{2}$

2. $\frac{1}{8}$

3. 1

4. $\frac{3^2}{2^6}$

Q.18 The number of four-digit integers which are greater than 1000 and divisible by both 2 and 3, but not by 5, is

Ans 1. 1500

2. 1200

3. 1666

4. 1333

Q.19

The set of all possible values of $f(x)$ for which $(81)^x + (81)^{f(x)} = 3$ is

Ans

✗ 1. $(-\infty, 4)$

✗ 2. $(3, 4)$

✓ 3. $(-\infty, 0.25)$

✗ 4. $(0.25, 3)$

Q.20

For $0 < \theta < \frac{\pi}{4}$, let $a = ((\sin\theta)^{\sin\theta})(\log_2 \cos\theta)$, $b = ((\cos\theta)^{\sin\theta})(\log_2 \sin\theta)$,
 $c = ((\sin\theta)^{\cos\theta})(\log_2 \cos\theta)$ and $d = ((\sin\theta)^{\sin\theta})(\log_2 \sin\theta)$. Then, the median value
in the sequence a, b, c, d is

Ans

✗ 1. $\frac{c+d}{2}$

✓ 2. $\frac{a+d}{2}$

✗ 3. $\frac{b+c}{2}$

✗ 4. $\frac{a+b}{2}$

Q.21 Ayesha is standing atop a vertical tower 200m high and observes a car moving away from the tower on a straight, horizontal road from the foot of the tower. At 11:00 AM, she observes the angle of depression of the car to be 45° . At 11:02 AM, she observes the angle of depression of the car to be 30° . The speed at which the car is moving is approximately

- Ans**
- 1. 8.45 km per hour
 - 2. 4.39 km per hour
 - 3. 10.6 km per hour
 - 4. 6.3 km per hour

Q.22 In a 400-metre race, Ashok beats Bipin and Chandan respectively by 15 seconds and 25 seconds. If Ashok beats Bipin by 150 metres, by how many metres does Bipin beat Chandan in the race?

- Ans**
- 1. 150
 - 2. 100
 - 3. 50
 - 4. 80

Q.23

If $A = \begin{bmatrix} 1 & 0 \\ \frac{1}{2} & 0 \end{bmatrix}$, then A^{2022} is

Ans

✗ 1. $\begin{bmatrix} 1 & 0 \\ \frac{1}{2^{2022}} & 0 \end{bmatrix}$

✗ 2. $\begin{bmatrix} 1 & 0 \\ 2022 & 0 \end{bmatrix}$

✓ 3. $\begin{bmatrix} 1 & 0 \\ 1011 & 0 \end{bmatrix}$

✗ 4. None of these

Q.24

The value of k for which the following lines

$$x - y - 1 = 0$$

$$2x + 3y - 12 = 0$$

$$2x - 3y + k = 0$$

are concurrent is

Ans ✗ 1. 1

✗ 2. -1

✗ 3. 12

✓ 4. 0

Q.25 The cost of a piece of jewellery is proportional to the square of its weight. A piece of jewellery weighing 10 grams is INR 3600. The cost of a piece of jewellery of the same kind weighing 4 grams is

- Ans
- 1. INR 1220
 - 2. INR 1440
 - 3. INR 576
 - 4. INR 600

Comprehension:

A showroom is open on all seven days of the week throughout the year. There are five employees Alex, Bhabha, Cathy, Dilip and Ethan who work in the showroom. Every day except Sunday, two employees are required while on Sunday three employees need to work. Every employee works for three days in a week. Some additional information is also provided:

- Every employee works on two consecutive days while the third day is not consecutive.
- Alex and Dilip work together on Tuesday and Wednesday while the other working day differs for them.
- Neither Bhabha nor Cathy works with Alex on any day.
- Cathy does not work either on Saturday or on Monday.

SubQuestion No : 26

Q.26 One of the days Alex works on is

- Ans
- 1. Friday
 - 2. Sunday
 - 3. Monday
 - 4. Saturday

Comprehension:

A showroom is open on all seven days of the week throughout the year. There are five employees Alex, Bhabha, Cathy, Dilip and Ethan who work in the showroom. Every day except Sunday, two employees are required while on Sunday three employees need to work. Every employee works for three days in a week. Some additional information is also provided:

- Every employee works on two consecutive days while the third day is not consecutive.
- Alex and Dilip work together on Tuesday and Wednesday while the other working day differs for them.
- Neither Bhabha nor Cathy works with Alex on any day.
- Cathy does not work either on Saturday or on Monday.

SubQuestion No : 27

Q.27 Employees who work on Sunday are

- Ans
- 1. Bhabha, Cathy and Ethan
 - 2. Bhabha, Cathy and Dilip
 - 3. Cathy, Dilip and Ethan
 - 4. Alex, Dilip and Ethan

Comprehension:

A showroom is open on all seven days of the week throughout the year. There are five employees Alex, Bhabha, Cathy, Dilip and Ethan who work in the showroom. Every day except Sunday, two employees are required while on Sunday three employees need to work. Every employee works for three days in a week. Some additional information is also provided:

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- Cathy does not work either on Saturday or on Monday.

SubQuestion No : 28

Q.28 The consecutive days on which Ethan works are

- Ans**
- 1. Sunday and Monday
 - 2. Friday and Saturday
 - 3. Saturday and Sunday
 - 4. Thursday and Friday

Comprehension:

A showroom is open on all seven days of the week throughout the year. There are five employees Alex, Bhabha, Cathy, Dilip and Ethan who work in the showroom. Every day except Sunday, two employees are required while on Sunday three employees need to work. Every employee works for three days in a week. Some additional information is also provided:

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- Alex and Dilip work together on Tuesday and Wednesday while the other working day differs for them.
- Neither Bhabha nor Cathy works with Alex on any day.
- Cathy does not work either on Saturday or on Monday.

SubQuestion No : 29

Q.29 Which among the following employees do not work together on any of the days?

- Ans**
- 1. Bhabha and Ethan
 - 2. Cathy and Dilip
 - 3. Dilip and Ethan
 - 4. Bhabha and Dilip

Comprehension:

A showroom is open on all seven days of the week throughout the year. There are five employees Alex, Bhabha, Cathy, Dilip and Ethan who work in the showroom. Every day except Sunday, two employees are required while on Sunday three employees need to work. Every employee works for three days in a week. Some additional information is also provided:

- Every employee works on two consecutive days while the third day is not consecutive.
- Alex and Dilip work together on Tuesday and Wednesday while the other working day differs for them.
- Neither Bhabha nor Cathy works with Alex on any day.
- Cathy does not work either on Saturday or on Monday.

SubQuestion No : 30

Q.30 Number of days Bhabha and Cathy work together in a week is

Ans  1.2

 2.3

 3.0

 4.1

Section : Verbal Ability

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

Bananas, apples, and avocados continue to ripen after they are picked. Cherries, blackberries, and grapes do not. The difference between climacteric fruits (the former) and non-climacteric fruits (the latter) matters to fruit growers and greengrocers, who must make sure their wares are in tip-top condition when they arrive at the marketplace. But how those differences originally came about remains unclear.

Two biologists of the University of Tokyo offer a suggestion. Fruits, they observe, exist to solve a problem faced by all plants—how best to spread their progeny around. Wrapping their seeds in a sugary pulp to provide a tasty meal serves as a way to get animals to do this for them. They do, however, need to make sure that their fruits favour the animals most likely to do the distributing. The biologists propose that climacterism, or its absence, is a way to achieve this. If ground-dwelling animals are the main distributors, then the continuing ripening of fallen fruit (i.e., climacterism) is beneficial. If, by contrast, those distributors are arboreal or aerial, and so can feed on unfallen fruit, then non-climacteric fruits will do well.

To test their idea, the two researchers studied 80 varieties of fruits, and noted which animals each depended on for its propagation. 35 of these fruits, eaten by both ground-dwelling animals and arboreal or aerial animals, were non-climacteric. Further, 15 of the 19 varieties eaten principally by ground-dwellers were climacteric, while 21 of the 26 fed on by arboreal or aerial animals were non-climacteric.

That is a suggestively strong correlation. And the authors' hypothesis is fortified by other evidence. They point out that non-climacteric fruits tend to have vivid colours, especially reds and purples. This may help them to stand out amid the foliage of their parent plants, advertising their presence. Climacteric fruits are generally better camouflaged. That makes them harder to spot until they have fallen to the ground.

The main limitation of their work is that they looked at fruits eaten by people. This has probably contaminated the sample, for thousands of years of selective breeding for traits that human beings find appealing may have blurred any signal optimised by natural selection. The next step, therefore, should be the analysis of wild fruits.

SubQuestion No : 1

Q.1 The origins of the distinguishing characteristics between the two types of fruits, climacteric and non-climacteric are

- Ans 1. trivial at this stage.
2. nebulous in spite of research.
3. clear now as a result of this research.
4. dependent on researcher observation.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

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SubQuestion No : 2

Q.2 Which one of the following options means “arboreal” and “camouflage”?

- Ans
- 1. ground-dwelling and hidden
 - 2. covered and variegated
 - 3. protected and fortified
 - 4. tree-dwelling and disguised

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

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SubQuestion No : 3

Q.3 Consider the following two Findings:

- (i) Non-climacteric fruits tend to have vivid colours.
- (ii) Thirty-six varieties of climacteric and non-climacteric fruits were eaten predominantly either by ground-dwellers, or by arboreal or aerial animals respectively.

According to the passage,

- Ans
- 1. Finding (i) provides main evidence and Finding (ii) provides supplementary evidence confirming the hypothesis of the biologists.
 - 2. Finding (i) provides supplementary evidence and Finding (ii) provides main evidence confirming the hypothesis of the biologists.
 - 3. Both Findings (i) and (ii) provide main evidence confirming the hypothesis of the biologists.
 - 4. Both Findings (i) and (ii) provide supplementary evidence confirming the hypothesis of the biologists.

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The main limitation of their work is that they looked at fruits eaten by people. This has probably contaminated the sample, for thousands of years of selective breeding for traits that human beings find appealing may have blurred any signal optimised by natural selection. The next step, therefore, should be the analysis of wild fruits.

SubQuestion No : 4

Q.4 The study has been based on

- Ans
- 1. fruits available at the University of Tokyo.
 - 2. wild fruits consumed by animals.
 - 3. fruits sourced by greengrocers.
 - 4. fruits that are consumed by humans.

Comprehension:

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To test their idea, the two researchers studied 80 varieties of fruits, and noted which animals each depended on for its propagation. 35 of these fruits, eaten by both ground-dwelling animals and arboreal or aerial animals, were non-climacteric. Further, 15 of the 19 varieties eaten principally by ground-dwellers were climacteric, while 21 of the 26 fed on by arboreal or aerial animals were non-climacteric.

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The main limitation of their work is that they looked at fruits eaten by people. This has probably contaminated the sample, for thousands of years of selective breeding for traits that human beings find appealing may have blurred any signal optimised by natural selection. The next step, therefore, should be the analysis of wild fruits.

SubQuestion No : 5

Q.5 The main point the writer makes is that fruit-bearing plants

- Ans
- 1. are better protected than other plant species and can propagate easily.
 - 2. of all kinds need to be studied, not just those consumed by humans.
 - 3. and other plant species' propagation cannot be studied accurately.
 - 4. have the same problems in propagation as other plants.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

Bananas, apples, and avocados continue to ripen after they are picked. Cherries, blackberries, and grapes do not. The difference between climacteric fruits (the former) and non-climacteric fruits (the latter) matters to fruit growers and greengrocers, who must make sure their wares are in tip-top condition when they arrive at the marketplace. But how those differences originally came about remains unclear.

Two biologists of the University of Tokyo offer a suggestion. Fruits, they observe, exist to solve a problem faced by all plants—how best to spread their progeny around. Wrapping their seeds in a sugary pulp to provide a tasty meal serves as a way to get animals to do this for them. They do, however, need to make sure that their fruits favour the animals most likely to do the distributing. The biologists propose that climacterism, or its absence, is a way to achieve this. If ground-dwelling animals are the main distributors, then the continuing ripening of fallen fruit (i.e., climacterism) is beneficial. If, by contrast, those distributors are arboreal or aerial, and so can feed on unfallen fruit, then non-climacteric fruits will do well.

To test their idea, the two researchers studied 80 varieties of fruits, and noted which animals each depended on for its propagation. 35 of these fruits, eaten by both ground-dwelling animals and arboreal or aerial animals, were non-climacteric. Further, 15 of the 19 varieties eaten principally by ground-dwellers were climacteric, while 21 of the 26 fed on by arboreal or aerial animals were non-climacteric.

That is a suggestively strong correlation. And the authors' hypothesis is fortified by other evidence. They point out that non-climacteric fruits tend to have vivid colours, especially reds and purples. This may help them to stand out amid the foliage of their parent plants, advertising their presence. Climacteric fruits are generally better camouflaged. That makes them harder to spot until they have fallen to the ground.

The main limitation of their work is that they looked at fruits eaten by people. This has probably contaminated the sample, for thousands of years of selective breeding for traits that human beings find appealing may have blurred any signal optimised by natural selection. The next step, therefore, should be the analysis of wild fruits.

SubQuestion No : 6

Q.6 According to the passage, the interest in the difference between climacteric and non-climacteric fruits is in the

- Ans**
- 1. environmental context.
 - 2. gastronomical context.
 - 3. commercial context.
 - 4. public health context.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

On the 14th of May 1796, vaccine matter was taken from the hand of a dairy maid, Sarah Nelmes, and inserted by two superficial incisions in the arms of James Phipps, a healthy boy of about eight years of age. The boy went through an attack of cowpox as expected. After this, however, it was necessary to determine whether he was protected from smallpox. After waiting two months Jenner inoculated him with material from a smallpox patient. He was delighted to note that the boy was not affected by smallpox.

By 1798, Jenner had succeeded in demonstrating the protective quality of the cowpox virus against smallpox, by putting on record details of 23 cases, contracted either casually or by direct inoculation. Sixteen of these had occurred accidentally among dairy workers in the course of occupations connected with cows and horses; the rest were done under Jenner's direction. Among the persons inoculated was Jenner's own little second son, Robert Harding Jenner, an infant eleven months old. Jenner demonstrated conclusively that the cowpox protects the human constitution from the infection of smallpox.

After Dr. Jenner had made his tests, he prepared a pamphlet for publication. He also went to London, so that he might have the opportunity to introduce the subject personally to friends and demonstrate the truth of his assertion to them. He remained in London for nearly three months without being able to find anyone who would submit to vaccination. Jenner went back to Gloucestershire, disappointed. It happened, however, that soon after his return home, a distinguished London surgeon named Cline resolved to make a trial of the vaccine material which Jenner had left with his friends.

The patient was a child suffering from a form of chronic hip-joint disease. The vaccine material was inoculated, and the vaccine vehicle ran rather a normal course and healed fully. The little patient was afterward inoculated with smallpox virus and found to be incapable of acquiring that disease. This case attracted considerable attention. The child was in a run-down condition, and the vaccine material might very well have provoked a rather serious local reaction. In a way, the fate of vaccination hung in the balance and good luck was in its favour. Mr. Cline, however, after this, became a strong advocate of vaccination, and brought it very decidedly before the London physicians.

It was not long before the opposition to the practice of vaccination took definite form. One of the best-known London physicians of the time, Dr. Ingenhouz, became the leader of a strong faction of the medical profession of London, who not only would have nothing to do with vaccination, but proclaimed openly that it was a dangerous innovation, absolutely unjustifiable, and communicated a disease without protecting against any other. Dr. Watt from Glasgow blamed the vaccine for the increase in severe cases of measles and measles-related deaths among children.

Fortunately, only a few colleagues were so illogical, and an excellent idea of how much Jenner's discovery was appreciated by his contemporaries may be obtained from the number of honours, diplomas, addresses and communications from public bodies and distinguished individuals which he received. Most of the prominent medical and scientific societies of Europe elected him a member or sent him some special token of recognition.

SubQuestion No : 7

Q.7 'Local reaction' refers to

- Ans
- 1. adverse comments and protests by people from that location.
 - 2. encouraging reaction from the people of the locality.
 - 3. adverse reaction caused by injections.
 - 4. encouraging reaction from local doctors.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

On the 14th of May 1796, vaccine matter was taken from the hand of a dairy maid, Sarah Nelmes, and inserted by two superficial incisions in the arms of James Phipps, a healthy boy of about eight years of age. The boy went through an attack of cowpox as expected. After this, however, it was necessary to determine whether he was protected from smallpox. After waiting two months Jenner inoculated him with material from a smallpox patient. He was delighted to note that the boy was not affected by smallpox.

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SubQuestion No : 8

Q.8 Jenner received a lot of recognition from medical bodies because

- Ans
- 1. Dr. Watt could not prove that vaccination caused measles.
 - 2. fortunately, only a few colleagues were illogical enough to reject him.
 - 3. most of his colleagues realised the effectiveness of his work.
 - 4. medical societies across Europe regularly engaged in tokenism.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

On the 14th of May 1796, vaccine matter was taken from the hand of a dairy maid, Sarah Nelmes, and inserted by two superficial incisions in the arms of James Phipps, a healthy boy of about eight years of age. The boy went through an attack of cowpox as expected. After this, however, it was necessary to determine whether he was protected from smallpox. After waiting two months Jenner inoculated him with material from a smallpox patient. He was delighted to note that the boy was not affected by smallpox.

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SubQuestion No : 9

Q.9 By calling the vaccine unjustifiable, Dr. Ingenhouz meant that vaccination

- Ans**
- 1. was an injustice against those on whom it was tested.
 - 2. was being carried out without any legal basis.
 - 3. made people sick and failed to provide general immunity.
 - 4. actually spread the disease to a large population.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

On the 14th of May 1796, vaccine matter was taken from the hand of a dairy maid, Sarah Nelmes, and inserted by two superficial incisions in the arms of James Phipps, a healthy boy of about eight years of age. The boy went through an attack of cowpox as expected. After this, however, it was necessary to determine whether he was protected from smallpox. After waiting two months Jenner inoculated him with material from a smallpox patient. He was delighted to note that the boy was not affected by smallpox.

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SubQuestion No : 10

Q.10 According to the author, the main idea in the passage is

- Ans**
- 1. chance and risk play a part in the success of scientific experiments.
 - 2. to explore the causes for vaccine hesitancy.
 - 3. scientific breakthroughs are more likely to happen in major urban centres.
 - 4. documentation is key for disseminating science.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

On the 14th of May 1796, vaccine matter was taken from the hand of a dairy maid, Sarah Nelmes, and inserted by two superficial incisions in the arms of James Phipps, a healthy boy of about eight years of age. The boy went through an attack of cowpox as expected. After this, however, it was necessary to determine whether he was protected from smallpox. After waiting two months Jenner inoculated him with material from a smallpox patient. He was delighted to note that the boy was not affected by smallpox.

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SubQuestion No : 11

Q.11 On returning from London, Dr. Jenner was disappointed because

- Ans**
- 1. the vaccine did not receive any recognition, rewards, or a patent.
 - 2. he was unsuccessful in replicating the experiment due to lack of volunteers.
 - 3. his friends would not agree with his findings on the vaccine.
 - 4. his friends responded negatively to the vaccine.

Comprehension:

Read the following passage and choose the answer that is closest to each of the questions that are based on the passage.

On the 14th of May 1796, vaccine matter was taken from the hand of a dairy maid, Sarah Nelmes, and inserted by two superficial incisions in the arms of James Phipps, a healthy boy of about eight years of age. The boy went through an attack of cowpox as expected. After this, however, it was necessary to determine whether he was protected from smallpox. After waiting two months Jenner inoculated him with material from a smallpox patient. He was delighted to note that the boy was not affected by smallpox.

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SubQuestion No : 12

Q.12 Twenty-three cases were put on record with the objective to explain very clearly that

- Ans**
- ✔ 1. the cowpox vaccine protected the patients from another deadly disease.
 - ✘ 2. Dr. Jenner was ready to go to any extent, even testing the vaccine on his own son.
 - ✘ 3. accidental contraction of cowpox happens among dairy workers.
 - ✘ 4. it is beneficial to immunity if we work with cows and horses.

Comprehension:

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

SubQuestion No : 13

Q.13 Flying this simple aeroplane is a _____ for the experienced pilot.

Ans 1. left-handed sport

2. piece of cake

3. left-handed game

4. slice of cake

Comprehension:

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

SubQuestion No : 14

Q.14 I still have two more difficult exams left, but I'm trying to _____; after these I won't have any more for a year!

Ans 1. think about the sunny side

2. look on the bright side

3. look forward to the bright side

4. think upon the sunny side

Comprehension:

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

SubQuestion No : 15

Q.15 Some of the best spies take the guise of innocuous secretaries or researchers and are able to send large amounts of information to their heads of espionage, as they are _____.

Ans 1. hiding within everyone's sight

2. hiding from watchful eyes

3. hiding documents very craftily

4. hiding in plain sight

Comprehension:

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

SubQuestion No : 16

Q.16 She _____ her classmates because she comes from a very rich, aristocratic family.

- Ans 1. looks down on
 2. looks up to
 3. looks towards
 4. looks away from

Comprehension:

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

SubQuestion No : 17

Q.17 For the past three decades, this chain of coffee shops has been committed to building a culture where everyone is welcome. They are an ally to the LGBTQ community, and this is just one instance of their _____.

- Ans 1. inclusivity and diversity
 2. discretionary practices
 3. mindfulness and objectivity
 4. discriminatory practices

Comprehension:

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

SubQuestion No : 18

Q.18 Leela is always nasty and inconsiderate with her colleagues; now that she has a rude superior, she is getting _____.

- Ans 1. a spoon of her own medicine
 2. a dose of bitter medicine
 3. an unpleasant medicine dose
 4. a taste of her own medicine

Comprehension:

Complete the following sentences by choosing the most appropriate word/phrase from the options given below.

SubQuestion No : 19

Q.19 Ever since Girish won the prestigious Infosys prize, he has been behaving _____.

- Ans 1. condescendingly
 2. overly
 3. controversially
 4. ambitiously

Comprehension:

In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

SubQuestion No : 20

Q.20 When all the words on the page got scrambled, she quickly pressed undo, after which the document reverted back to its original state.

- Ans 1. document reverted to it's original state.
 2. document reverted back to it's original state.
 3. document reverted to its original state.
 4. document reverted back to original state.

Comprehension:

In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

SubQuestion No : 21

Q.21 He was having a difficult time, but never once he complained.

- Ans 1. not once did he give the complaint.
 2. not once did he complain.
 3. not once any complaining happened.
 4. not once he complained.

Comprehension:

In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

SubQuestion No : 22

Q.22 The Principal and professors are authorized to sanction leave to a student provided she will have a good attendance record.

- Ans
- 1. provided that a good attendance record is maintained by her.
 - 2. provided she had a good attendance record.
 - 3. provided she has a good attendance record.
 - 4. provided she will have a good attendance record.

Comprehension:

In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

SubQuestion No : 23

Q.23 His talk on heritage sites has picked up my interest.

- Ans
- 1. brightened
 - 2. adopted
 - 3. aroused
 - 4. caught

Comprehension:

In each of the following sentences, the incorrect part of the sentence is underlined. Choose an alternative from the four given options so that the sentence is rendered correct.

SubQuestion No : 24

Q.24 If I had known that you needed to go to the airport yesterday, I could drive you there.

- Ans
- 1. would have driven you there.
 - 2. should drive you there.
 - 3. would drive you there.
 - 4. should have driven you there.

Comprehension:

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that seems most logically appropriate to complete the paragraph.

SubQuestion No : 25

Q.25 Nowadays, many teenagers and young adults around the world have to spend most of their time studying in order to get top grades, a university place, and a good job.

_____. There are several causes for this situation, one of the main ones being exams. These are stressful experiences, and most students take a huge number of them during their school career.

- Ans**
- 1. For this reason, the education system has to change for the welfare of the students.
 - 2. Therefore, it would be better to learn how to apply the knowledge gained.
 - 3. Therefore, studying while you are exhausted is unproductive.
 - 4. For this reason, there is often little time left for hobbies or socializing.

Comprehension:

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that seems most logically appropriate to complete the paragraph.

SubQuestion No : 26

Q.26 This winter, I wish to go to the beaches for a holiday. I think I will go to Goa, India's most well-known beach holiday destination. It is about 600 km away from Mumbai, so reaching there is not a major problem. _____. The major Goan beaches are tourist attractions and have some good beach-view hotels and plenty of shops selling touristy things such as beach robes, hats, jewellery, bags, and more.

- Ans**
- 1. One of the great things about a holiday in Goa is that we can be as lazy as we want, relaxing all day, sunbathing, sipping juice, and trying out different Goan tidbits.
 - 2. There are buses that ply at night, there are both day and night trains, and one can always hire a car and reach there in comfort in about 10 hours.
 - 3. A great getaway place, it offers an interesting variety of food, sightseeing options, flea markets, and some wonderful Indo-Portuguese buildings.
 - 4. Some major beaches are Baga, Bogmalo, Candolim, Calangute, and Dona Paula, where adventure sports activities like water skiing and scuba diving are organized.

Comprehension:

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that seems most logically appropriate to complete the paragraph.

SubQuestion No : 27

Q.27 _____. In Southeast Asia, for example, climate and lifestyle factors mean that people spend much more time in shopping malls than Europeans do, who might go shopping once a fortnight. Then there are gender variations in the way we shop. As descendants of hunter-gatherers, accumulating is in our blood, but how you go about it depends on whether you are male or female.

- Ans**
- 1. By and large, people enjoy shopping and comparing brands and prices.
 - 2. When it comes to shopping, men hunt, and women gather.
 - 3. Retail stores constantly offer promotional discounts to entice shoppers.
 - 4. Culture plays an important role in shaping the shopping experience.

Comprehension:

Each of the paragraphs given below has a sentence missing which is indicated by a blank. From the choices given below each paragraph, choose the sentence that seems most logically appropriate to complete the paragraph.

SubQuestion No : 28

Q.28 The people of the Indus Valley civilization wrote with a script. So far scholars have been unable to decipher that script. Archaeologists who have been excavating newly discovered sites in Mesopotamia hope to find a text that has scripts from both the Indus valley and Mesopotamia, the second of which has already been deciphered.

- Ans**
- 1. They will then be able to decide which civilization was older.
 - 2. They will then be able to decode the Indus valley language.
 - 3. The nature of relationships between the two will come to light.
 - 4. They can then prove that there was trade between the two.

Comprehension:

The sentences below have words that are missing. Choose the best option from those given below to complete the sentence.

SubQuestion No : 29

Q.29 The beauty of _____ is that it poses thought-provoking questions and inspires us to think deeply about _____ and life in general. Further, _____ about the ideas and perspectives outlined by different thinkers can help us to gain a better _____ of the world we live in.

- Ans**
- 1. philosophy; ourselves; pondering; understanding
 - 2. history; animals; mulling; acquaintance
 - 3. orthography; writing; speaking; perspective
 - 4. linguistics; language; cogitating; picture

Comprehension:

The sentences below have words that are missing. Choose the best option from those given below to complete the sentence.

SubQuestion No : 30

Q.30 The investigators have _____ that he had leaked confidential _____ information about the acquisition, thereby allowing associates to profit _____ from the deal.

- Ans**
- 1. accused; important; dramatically
 - 2. alleged; insider; illicitly
 - 3. announced; financial; treacherously
 - 4. discovered; internal; enormously

Comprehension:

The sentences below have words that are missing. Choose the best option from those given below to complete the sentence.

SubQuestion No : 31

Q.31 Visually strong, _____ films of the 1920s are _____ preserved and suffer from censorship cuts, leading to the _____ that they were primitive and barely watchable.

- Ans**
- 1. action-packed; badly; accusation
 - 2. monochrome; barely; observation
 - 3. classic; dispassionately; conclusion
 - 4. silent; poorly; misconception

Comprehension:

The sentences below have words that are missing. Choose the best option from those given below to complete the sentence.

SubQuestion No : 32

Q.32 Everyday more than 1 billion promotional messages are sent that are commercial and _____. Although _____ have used more technology to stop this, _____ find ways around it.

- Ans**
- 1. informative; authorities; promoters
 - 2. inescapable; governments; advertisers
 - 3. educational; firewalls; hackers
 - 4. unsolicited; regulators; spammers

Comprehension:

The sentences below have words that are missing. Choose the best option from those given below to complete the sentence.

SubQuestion No : 33

Q.33 In an anthropocentric _____, animals are no more than property to human beings. Therefore, the concepts of 'humane' treatment and 'necessary' _____ are economic in nature. The idea that killing animals is not a serious issue as long as animals are not made to suffer rests _____ on the widely accepted idea that animals do not have a right to life.

- Ans**
- 1. construct; comfort; somewhat
 - 2. worldview; suffering; explicitly
 - 3. universe; gain; entirely
 - 4. belief; well-being; partially

Comprehension:

The sentences below have words that are missing. Choose the best option from those given below to complete the sentence.

SubQuestion No : 34

Q.34 Achieving spaceflight enabled humans to begin to explore the solar system and the rest of the _____, to understand the many objects and _____ that are better observed from a space perspective, and to use for human benefit the resources and attributes of the space environment. All of these activities – discovery, scientific understanding, and the _____ of that understanding to serve human purposes – are elements of space _____.

- Ans**
- 1. configuration; elements; functioning; vastness
 - 2. cosmos; materials; principles; identification
 - 3. universe; phenomena; application; exploration
 - 4. galaxy; ideologies; enormity; visualisation

Comprehension:

One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

SubQuestion No : 35

Q.35 One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

- Ans**
- 1. We were told that she had lived through tough times which made her cross and cranky as she grew older.
 - 2. Although he thinks he is the life of the party, his remarks are insensitive, and his jokes are vulgar, cross, and crude.
 - 3. It was a long journey by road, and they had yet to find a boat that would help them to cross the river.
 - 4. The mistakes of his youth are the cross that he has to bear for the rest of his life.

Comprehension:

One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

SubQuestion No : 36

Q.36 One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

- Ans**
- 1. She wanted to make a good impression but, at the last moment, she discovered a spot of ink on her collar.
 - 2. Such a spot on his career was difficult to ignore when deciding promotions.
 - 3. He was unsure if he could respond to the question asked; fortunately, his answer was spot on.
 - 4. There was a scenic spot not very far from our cottage where we used to go for picnics.

Comprehension:

One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

SubQuestion No : 37

Q.37 One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

- Ans 1. She flouted her designer wear and accessories in front of her classmates.
2. The problems caused by flouting rules are many, but some people do not care.
3. Her fault was that she flouted the dress code and refused to wear the uniform.
4. The orchestra decided to flout tradition and played their instruments wearing ordinary clothes.

Comprehension:

One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

SubQuestion No : 38

Q.38 One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

- Ans 1. The judicial magistrate asked the prosecuting lawyer to state the grounds on which the defendant had been arrested.
2. Her admirers considered her demeanour to be of great state and refinement, and most impressive.
3. Uttar Pradesh, being the most densely populated state in India, has the highest number of representatives in Parliament.
4. The state of his grandfather's health was critical, but it was difficult for him to get in touch with all the members of the family.

Comprehension:

One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

SubQuestion No : 39

Q.39 One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

- Ans 1. As he was very old, he didn't have the strength to draw water from the well near his house.
2. The cricket match was heading for a draw, when the batsman hit a sixer and our team won.
3. He was lucky enough to win the draw in the lottery, where the prize was a rare painting.
4. He used to keep all his important documents in the draw of his cupboard.

Comprehension:

One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

SubQuestion No : 40

Q.40 One of the statements below contains a word used incorrectly. Choose the option which has the incorrect or inappropriate usage of the word.

- Ans
- 1. Some treacherous relatives of Indian rulers collaborated with the British Empire.
 - 2. When the women were asked to join the protest, they refused to collaborate.
 - 3. She interviewed many teens to collaborate her thesis on their mental health issues.
 - 4. The policeman collaborated with the film makers who were shooting a crime thriller.

Q.41 The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers in the space provided. Only numbers are to be entered in the space provided for the answer, and no other letters or characters should be entered. For example, a response such as 3412 or 25143 is valid, and a response such as 3412. or 25143. is invalid.

1. The Central African Republic has approved Bitcoin as an official currency
2. Experts foresee that this will damage the environment as well as the economy
3. Others claim that this may make money laundering easy and also use up a lot of electricity.
4. Economists criticised this move as a potential risk to the financial stability of the nation.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 1432

Given 1423

Answer :

Q.42 The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers in the space provided. Only numbers are to be entered in the space provided for the answer, and no other letters or characters should be entered. For example, a response such as 3412 or 25143 is valid, and a response such as 3412. or 25143. is invalid.

1. This means the brain receives less input over the course of a day.
2. Youthful eyes jiggle regularly to take in new or unfamiliar stimuli.
3. As the person attached to those eyes ages, the eye muscles grow slower and the pathways between the eye and the brain grow longer, more complex, or, in some cases, get damaged.
4. Our eyes quickly scan the surroundings and then send the data to the brain.
5. Human eyes perform jiggles, more formally called *saccades*, in response to a change in the field of vision.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 54231

Given --

Answer :

Q.43 The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers in the space provided. Only numbers are to be entered in the space provided for the answer, and no other letters or characters should be entered. For example, a response such as 3412 or 25143 is valid, and a response such as 3412. or 25143. is invalid.

1. Located in the foothills of the Sion Fort, the lake is a Grade II-A heritage structure, dating back to the 17th century.
2. Once home to several marine creatures, the lake is now surrounded by high-rise residential buildings.
3. The Municipal Corporation is set to breathe life back into the city's Sion Talao (Lake) with the rejuvenation and beautification of the centuries-old lake.
4. Over the years, the lake has lost its prominence.
5. Earlier the talao was a known natural water tank with the Sion hillock expanding around it like an enclosing wall.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 31542

Given --

Answer :

Q.44 The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers in the space provided. Only numbers are to be entered in the space provided for the answer, and no other letters or characters should be entered. For example, a response such as 3412 or 25143 is valid, and a response such as 3412. or 25143. is invalid.

1. A sub-par monsoon cuts farm yields, output, and farm incomes, increasing the country's dependence on food imports.
2. A robust monsoon will help put a lid on food inflation by increasing domestic output of a variety of goods and commodities.
3. This is because half the Indian population depends upon farm-derived income.
4. The June-to-September rain-bearing system is often called the lifeblood of the country's economy.
5. Unfortunately, however, nearly 40% of India's net sown area does not have access to irrigation.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 43512

Given --

Answer :

Q.45 The sentences given below, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a number. Decide on the most logical order and enter the sequence of numbers in the space provided. Only numbers are to be entered in the space provided for the answer, and no other letters or characters should be entered. For example, a response such as 3412 or 25143 is valid, and a response such as 3412. or 25143. is invalid.

1. The popularity of these creations grew along with that of the tea ceremony in the 16th century.
2. However, savvy tourists find the best bargains for ceramics in Tokyo's Kitchen Town.
3. Modern shops in touristy spots display thousands of them, both hand crafted and factory made.
4. Japanese artisans have been making ceramics, known as Yakimono since prehistoric times.

Case Sensitivity: No

Answer Type: Equal

Possible Answer: 4132

Given 4132

Answer :