

THE WINNING EDGE ACADEMY

RASHTRIYA INDIAN MILITARY COLLEGE, DEHRADUN

ENTRANCE EXAMINATION - DEC 2023 SOLUTION

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SUBJECT: MATHEMATICS (ANSWER KEY)

Time: Hr 30 Mins MM : 200

Instructions:

- 1. Attempt all 20 questions.
- 2. Part 'A' contains 10 questions and each question in this part carries 'Eight marks'.
- 3. Part 'B' contains 10 questions and each question in this part carries 'Twelve marks'.
- 4. Use of calculators is prohibited. Complete written justification is required for each question. Marks will be awarded for correct steps to reach the solution. Answers without justification will not have any credit.
- 5. Take the value of π as $\frac{22}{7}$
- 6. Use blue/black ball pen to answer the questions.
- 7. The question paper can be retained by the candidates post examinations.

PART A($10 \times 8 = 80 \text{ MARKS}$)

1. Compare the fractions $x = \frac{111110}{111111}$, $y = \frac{222221}{222223}$, $z = \frac{333331}{33334}$ and arrange them in ascending order.

Solution:

222221-1

$$x = \frac{111110}{111111}, y = \frac{222221}{222223}, z = \frac{333331}{333334}$$

Now $x - 1$, $y - 1$, $z - 1$

$$\frac{222223}{222221 - 222223} = \frac{-2}{2}$$
 (ii)

$$\frac{333331 - 333334}{333334} = \frac{-3}{333334} \dots (iii)$$

From (i) and (ii)

$$\frac{-1 \times 2}{222222} \qquad \frac{-2}{222223}$$

$$\frac{-2}{222222} \qquad \frac{-2}{222223}$$

Numerator is same so, Number with larger Denominator is actually small If we to none negative sign will change



Then
$$\frac{-2}{222222} > \frac{-2}{222223}$$

But we to negative sign will change

$$\frac{-2}{222222} < \frac{-2}{222223}$$

Now compare (ii) and (iii)

$$\frac{-2\times3}{222223} > \frac{-3\times2}{33334\times2}$$

$$\frac{-6}{666669} > \frac{-6}{66668}$$

Hence clearly y is greatest

Compare (iii) and (i)

$$\begin{array}{c|c}
-1 \times 3 & 3 \\
\hline
1111111 \times 3 & 333334 \\
\hline
-3 & -3 & 333334
\end{array}$$

2. Which of the following rational numbers are terminating in their decimal notation and which are not. For the numbers that have terminating decimals, express the number as a terminating decimal.

a)
$$\frac{73248}{1500}$$

b)
$$\frac{426}{64}$$

c)
$$\frac{123456}{125}$$

Solution:

For terminating decimal in denominator we should have factor of 2 and 5

a)
$$\frac{73248}{1500}$$

If we divide it by 3 i.e., 24416/500

$$500 = 2 \times 2 \times 5 \times 5 \times 5$$

b)
$$\frac{426}{64}$$

$$64 = 2^6$$

c)
$$\frac{123456}{125}$$

$$125 = 5 \times 5 \times 5$$
 is a prime factor of 5

Hence, all three are terminating decimals

3. Two different numbers x and y (not necessarily integers) satisfy $x^2 - 2000x = y^2 - 2000y$. Find the sum of x and y.

Solution:

$$x^2 - 2000x = y^2 - 2000y$$

$$x^2 - y^2 = 2000x - 2000y$$

$$x^2 - y^2 = 2000(x - y)$$

$$(x-y)(x+y) = 2000(x-y)$$

$$\frac{(x-y)(x+y)}{(x-y)} = 2000$$

$$(x+y)=2000$$



4. A family consists of four persons. If Masha's scholarship is doubled, the total income of the family will increase by 5%; if, instead, Mother's salary is doubled, the family's income will become 15% greater; and if Father's salary is doubled, the family's income will grow by 25%. By what percent will the family's income grow if Grandpa's pension is doubled.

Solution:

Let the income of

Masha's = x

Mother = y

Father = z

Grandfather = w

$$w + x + y + z = 100$$
(i)

Now Masha's income is double after 5% income = $100 + \frac{5}{100} \times 100$

$$w + 2x + y + z = 105$$
(ii)

Now Mother's income is double after 15% income

$$w + x + 2y + z = 115$$
(iii)

Now father's income is double after 25% income

$$w + x + y + 2z = 100 + \frac{25}{100} \times 100$$

Hence we get three eq.

$$w + 2x + y + z = 105$$

$$w + x + 2y + z = 115$$

$$w + x + y + 2z = 125$$

$$3w + 4x + 4y + 2z = 345$$
(v)

$$2w + 4(x + y + z) = 345$$

From eq (i)

$$w + x + y + z = 100$$

$$x + y + z = 100 - w$$
(vi)

Put in equation in x

$$3w + 4(100 - w) = 345$$

$$3w + 400 - w = 345$$

$$-w = 345 - 400$$

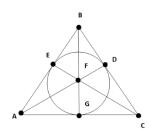
$$-w = -55$$

$$w = 55$$

Hence there must be 55% increase

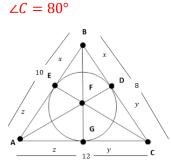


5. Refer to the figure below. (Figure 1). Triangle ABC has an in circle with center at F and touching the triangle at E, G and D. (a) Given that $\angle FAG = 20$ Degrees, $\angle FCG = 30$ Degrees. Find all the angles A, B and C of the triangle ABC (b) Given that AC=12, AB=10, and BC= 8, Find the length of BE and BD.



Solution:

$$\angle FAG = 20^{\circ}$$
 $\angle FAE = 30^{\circ}$ (Angle bisector)
 $\angle FCG = 20^{\circ}$ $\angle FCD = 30^{\circ}$ (Angle bisector)
Now
 $\angle A = 40^{\circ}$ $\angle C = 60^{\circ}$
Now $\angle B = ?$
 $\angle A + \angle B + \angle C = 180^{\circ}$
 $\angle 40 + 60 + \angle C = 180^{\circ}$
 $\angle C = 180 - 100$



$$x + z + z + y + x + y = 10 + 12 + 8$$

$$2x + 2y + 2z = 30$$

$$2(x + y + z) = 30$$

$$x + y + z = \frac{30}{2}$$

$$x + y + z = 15$$

$$z = 15 - 8$$

$$z = 7$$

$$10 + y = 15$$

$$y = 5$$

$$x + y + z = 15$$

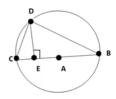
x + 12 = 15



$$x = 15 - 12$$

x = 3

6. Refer to the figure below. (Figure 2). The side CB is the diameter of the circle. Given that CE=3, BE=7, and DE \perp BC. Find CD, DE and DB.



Solution:

CE = 3

BE = 7

∴ BC = BE + EC

= 7 + 3 = 10

As we know, that, angle in a semi-circle 90° is.

$$\angle CDB = 90^{\circ}$$

Using Pythagoras theorem-

$$CD^2 + BD^2 = BC^2$$

$$CD^2 + BD^2 = 10^2$$

$$CD^2 + BD^2 = 100$$
 (i

Now,

In ΔBED -

$$BD^2 = ED^2 + BE^2$$

$$BD^2 - ED^2 = (7)^2 = 49$$
 (ii)

Again, In ΔCED —

$$CD^2 + DE^2 = BE^2$$

$$BD^2 - ED^2 = (3)^2 = 9$$
 (iii)

Subtract (iii) from (ii)

$$CD^2 - DE^2 - BD^2 - ED^2 - 9 - 49$$

$$CD^2 - BD^2 = -40$$

$$BD^2 - CD^2 = 40$$
 (iv)

Adding (i) and (4)

$$CD^2 - BD^2 + BD^2 - CD^2 = 100 + 40$$

$$BD^2 = \frac{140}{2} = 70$$

$$BD = \sqrt{70}$$

Putting value of BD in (i) -

$$CD^2 + 70 = 100$$

$$CD^2 = 100 - 70$$

Putting value of BD is (ii)

$$70 - ED^2 = 49$$

$$70-49=ED^2$$

 $21=ED^2$
 $DE=\sqrt{21}$
Hence,
 $DC=\sqrt{30},\ DE=\sqrt{21}\ and\ DB=\sqrt{70}$

7. Given that 56a = 65b where a and b are natural numbers, prove that a + b is composite. (Hint: Consider the equation 3p = 2q. Notice that in this equation p has to be a multiple of 2 and q has to be the same multiple of 3, i.e, p = 2k and q = 3k for some k.

Solution:

$$56a = 65b$$

$$\frac{a}{b} = \frac{65}{56}$$
Let $a = 65K$

$$b = 56K$$
Now
$$65K + 56K$$

$$= 121K$$
More than 3 factor

8. Brothers Prem and Vishwa decided to make a funny video and post it on the Internet. First, they filmed how each of them walked from home to school - Vishwa walked for 8 minutes, and Prem walked for 5 minutes. Then they came home and sat down at the computer to edit the video: they simultaneously launched Vishwa's video from the beginning and Prem's video from the end (in the opposite direction); at the moment when in both videos the brothers were at the same point on the path, they merged Prem's video with Vishwa's. The result was a video in which Vishwa's walks from home' to school, and then at some point suddenly turns into Prem and walks home backwards. How long was the edited funny video in minutes?

Solution:

Let the distance be = 40 cm



Prem Speed =
$$\frac{40}{8}$$
 = 5m/min

Speed of Vishwa =
$$\frac{40}{5}$$
 = 8 m/min

And they one moving towards each to them

Relative Speed =
$$5 + 8 = 13 \ m/min$$

Now =
$$\frac{40}{13}$$
 min

Now

You can take distance anything be x, 100,40,80 answers will not change

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9. Natasha can prepare Greek and Ceasar salad. Vanya can prepare Greek and Russian salad. Sasha can prepare Caesar and Russian salad. Write down the names of girls in a row and the names of dishes in next row. Join the girls with the dishes they can cook with lines. Now assign dishes to each girl such that each cooks a dish she knows and all dishes are different. How many solutions does the problem have?

Solution: Let us do case study

	Case I
Natasha	
Vanya	
Sasha	

Now from the Question Natasha can prepare only Greek and cear

	Case I
Natasha	Greek
Vanya	
Sasha	

* now vanya cannot prepare greek in case I while in case II Sasha cannot prepare Caesar

	Case I	Case II
Natasha	Greek	Caesar
Vanya	Russian	
Sasha		Russian

So only two case are possible are in case I Sasha is left with only one option that is Caesar while in option II vanya in left with only one option that is greek

	Case I	Case II
Natasha	Greek	Caesar
Vanya	Russian	Greek
Sasha	Caesar	Russian

10. Harold made a plum pie to take on a picnic. He was able to eat only $\frac{1}{4}$ of the pie, and he left the rest his friends. A moose came by and ate $\frac{1}{3}$ of what Harold left behind. After that, a porcupine ate $\frac{1}{3}$ of what the 3 moose left behind. How much of the original pie still remained after the porcupine left?

Solution:

Let total pie =
$$x$$

Harold ate
$$=\frac{1}{4} \times x = \frac{x}{4}$$

Remaining cake =
$$\frac{x-x}{1} = \frac{3x}{4}$$

Now more ate $\frac{1}{3}$ of remaining

$$\frac{1}{3} \times \frac{3x}{4}$$

Remaining
$$\frac{x}{4}$$
 $\frac{-x}{4} = \frac{2x}{4}$

Porcupine ate $=\frac{1}{3}$ of what more left

$$\frac{1}{3} \times \frac{2x}{4}$$

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$$\frac{2x}{12} = \frac{x}{6}$$
Remaining ate
$$= \frac{2x}{4} - \frac{x}{6} = \frac{6x - 2x}{12}$$

$$\frac{4x}{12} = \frac{x}{12}$$

PART B $(10 \times 12 = 120 \text{ MARKS})$

11. Is $4^9 + 6^{10} + 3^{20}$ a prime number (Hint: note that $(a + b)^2 = a^2 + 2ab + b^2$. And, Is $20^{100} - 17^{34}$ a prime?

Solution:

$$4^9 + 6^{10} + 3^{20}$$

 $(2)^2 + 2.3^{10} \times 2^9 + (3^{10})^2$
 $(2^9 + 3^{10})^2$

Number having square has atheist 3 factor

Hence, it is not a prime number

Now,

$$20^{100} - 17^{34}$$

$$(20^{50})^2 - (17^{17})^2$$

$$(20^{50} - 17^{17})20^{50} + 17^{17}$$

 $20^{100} - 17^{34}$ has two factor

So, it is also not a prime number

- 12. Ananya calls a date beautiful if all 6 digits of its record are different. For example, 04/19/23 is a beautiful date, but 02/19/23 and 06/01/23 are not.
 - a) How many beautiful dates will there be in April 2023?
 - b) How many beautiful dates are there in April 2023?

Solution:

(i) Than can be no beautiful dates from 1 to 10

Become will be repeated in each

For example

01/04/2023

09/04/2023

10/04/2023

In

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15/04/2023

16/04/2023

17/04/2023 — They are beautiful dates

18/04/2023

19/04/2023

From

20/04/2023 to 30/04/2023 - 2 is repeated

30/04/2023 - 3 is repeated

Hence only 5 beautiful dates are there

(ii) February, March, are not include

February is 2nd month and March is 3rd months being year 2023 2 and 3 will be repeat

November and December are 11 and 12 hence 1 and 2 are repeated

In October and January that is 10 th and 1st month either

1 or 0 repeated

Example

01/10/2023 01/01/2023

14/10/2023 18/01/2023

30/10/2023 30/01/2023

Now we are left with 6 months

April, May, Tune, July August Sept

Now we analyse date

In every month we will not include dates from

1 to 13 (become each time either 1 or 0 is repeated

We will also not include dates from

20 to 30/31 because each time either 2 or 3 is repeated

Now we are left with the following dates 14, 15, 16, 17, 18, 19

In there dates also we will cancel the date which have same month

Example

April is 4th months so 14th date cannot be count in that month

May is 5th month so 15th date cannot be count in that month

June is 6th month so 7th date cannot be count in that month

So in each month not of 5 dates i.e.

14, 15, 16, 17, 18, 19

We will count one less date

So, each month have 5 beautiful days

Hence total beautiful days = $5 \times 6 = 30$

13. Vasant solved problems for 15 days - at least one every day. Every day (except the first), if the weather was cloudy, he solved one more problem than the previous day, and if it was sunny, he solved one less problem. In the first 9 days, Vasant solved 13 problems.

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- a) What was the weather like on the 10th day? How many problems did he solve that day?
- b) What is the greatest number of problems Vasant could solve on the 15th day?

Solution:

(i) We know that vasant did 13 answers correct

Now divide 13 in such a way that some days its sunny

Some day its cloudy

Let x question on sunny day y cloudy day

Total question (x + y)

$$x + 2y = 13$$

So,
$$x = 9 - y$$

$$9 - y + 2y = 13$$

$$9 + y = 13$$

$$y = 13 - 9$$

$$v = 4$$

$$x = 9 - 4$$

$$x = 5$$

5 days are sunny 4 days are cloudy

So the weather like on the 10th

Day is cloudy and he solved 2

Problems on that day

(ii)

Date	1	2	3	4	5	6	7	8	9
	1	2	1	2	1	2	1	2	1
	Sunny	Cloudy	Sunny	Cloudy	Sunny	Cloudy	Sunny	Cloudy	Sunny

It we want was vasant to solve greatest number of problem then given him all other days as cloudy

So, on

11th →3 problems solved

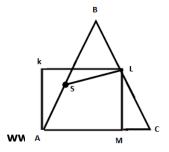
12th →4 problems solved

13th →5 problems solved

14th →6 problems solved

15th →7 problems solved

14. Isosceles triangle ABC (AB = BC) and square AKLM are located as shown in the figure below. Point S on AB is such that AS = SL. Find the value of & SLB. (Hint: Draw construction line KS and analyse the triangles KSL. and KSA for congruency and consequence)





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Solution:  \angle KAM = 90^{\circ}   \angle SAM = x^{\circ}   \angle LCA = x^{\circ}   \angle LCA = x^{\circ}  BLK = x^{\circ} (Because they are responding)  \angle KAS = 90 - x^{\circ}  [Hence BLS = BLK + S]  \angle KLS = 90 - x^{\circ}  BLS = 90 - x + x BLS = 90 - x + x
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15. Two congruent triangles are located inside a square, as shown in the figure below. Find their angles

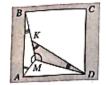


Figure 4: Geometry2

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Solution:
ABM \cong AMD
Hence
AB = AD
AM = AM
BM = MD .....(i)
\Delta KMD \cong \Delta BMA
AB = AD (side of square)
MD = MB from (i)
AM = AM
So all three triangle one congruent
\angle KMA = \angle AMD
                        \angle AMB = x
x + x + x = 360
3x = 360
x = 120
```

16. Two sums are written on the board:

b)
$$9 + 98 + 987 + 9876 + 98765 + 987654 + 9876543 + 98765432 + 987654321$$

Determine which one is greater (or they are equal). (Hint: Write the two sums neatly as you would while adding them by brute force)



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Solution:
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17. Linda wrote down the name of her home town and all its cyclical shifts (shifts of letters in a loop), stacking them up. Here is what she obtained:

PODUNK

KPODUN

NKPODU

UNKPOD

DUNKPO

ODUNKP

She then ordered these lines alphabetically to make another table

DUNKPO

KPODUN

NKPODU

ODUNKP

PODUNK

UNKPOD

Reading out the last column, she got ONUPKD. Igor did the same with the name of his home town and got the "word" MTTLARAEKIS. Find the name of Igor's town, if the name begins with the letter S.

Solution:

Solution:-

A_____M MA A

AMA____T

TAMA____

ITAMA____l

LITAMA____R

RLITAMA___E

ERLITAMA__T

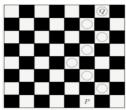
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STERLITAMAK

18. A game board consists of 64 squares that alternate in color between black and white. The figure below shows square P in the bottom row and square Q in the top row. A marker is placed at P. A step consists of



moving the marker onto one of the adjoining white squares in the row above. How many 7-step paths are there from P to Q? (The figure below shows a sample path.)



Solution:

Notice that, in order to step onto any particular white square, the marker must have come from one of the 1 or 2 white squares immediately beneath it (since the marker can only move on white squares). This means that the number of ways to move from P to that square is the sum of the numbers of ways to move from P to each of the white squares immediately beneath it. To solve the problem, we can accordingly construct the following diagram, where each number in a square is calculated as the sum of the numbers on the white squares immediately beneath that square (and thus will represent the number of ways to remove from P to that square, as already stated).

19. The spider wove a web, and all 12 of its knots caught a Fly or a mosquito. In this case, each insect turned out to be connected by a piece of web to exactly two mosquitoes. Draw an example of how this could be (by writing the letters F for a fly and M for a mosquito inside the knots). Redraw the figure given below in your answer script and mention 'F' or 'M' in the white circle (knot) as suitable.



Spider Web

Solution:



- 20. A knight always speaks the truth. A liar always lies. Two knights and two liars are gathered together.
 - a) "All! of us are knights"
 - b) "There is exactly one knight amongst you".



c) "Amongst you, there are more knights than liars"

If anyone could, then indicate everyone who could and explain why he could say that. If no one could say such a phrase, then also explain why?

Solution:

a) All of us are knight

Knight always speaks truth so both will always say we speaking truth

Hence we are all knight

Liars wont speak truth hence all will say

That we are knights

Knights		Liars		
1	2	3	4	
YES	YES	YES	YES	

b) There is exactly one knight amongst you

Knigl	nts	Liars		
1	2	3	4	
NO	NO	YES	YE:	

Knight won't lie so they will not say that there is exactly one.

c) Amongst you, there are more knights than liars

Knights		Liars		
1	2	3 4		
YES	YES	YES YES		

- 1. Knight won't lie
- 2. liars won't say truth.



SUBJECT: ENGLISH

SECTION A – READING (25 MARKS)

Instructions:

- 1. Read all the questions thoroughly before answering.
- 2. The question paper comprises of three sections.
- a) Reading Sectionb) Writing Sectionc) Grammar25 Marks30 Marks70 Marks
- 3. The question paper can be retained by the candidate post exam.

1. a) What is a coral reef, and how is it formed?

Answer – A coral reef is a vibrant and underwater ecosystem formed by the accumulation of calcium carbonate secreted by corals.

b) Why are coral reefs often referred to as the "rainforests of the sea"?

Answer – They are referred to as rainforests of the sea due to their unparallel biodiversity and complex interlines.

c) Where are coral reefs typically found, and why do they thrive in these conditions?

Answer – Coral reefs are typically in found warm, shallow waters of tropical oceans. They thrive in these conditions as such conditions provide a habitat for the growth of a large amount of marine lifecorals.

d) Describe the symbiotic relationship between corals and zooxanthellae.

Answer – The corals and an algae known as zooxanthellae live in a symbiotic relationship. The algae provides the corals with all the essential nutrients for their growth and hence contribute to the vibrant colors of the reef.

e) What role do corals play in the overall health and structure of a coral reef ecosystem?

Answer – Corals play an important role in the overall health and structure of a coral reef system as they contribute to marine biodiversity. Diverse species of marine organism of various shapes and sizes like shanks sea horses, sponges, mollusks etc are a part of this ecosystem.

f) Find the antonyms of the following from the passage:

- i) Simple Complex
 - ii) Central Diverse

g) Find the words from the passage which mean the following:

- i) Finally eventfully
- ii) Fragile vibrant
- iii) Charming captivating

2. a) Give a suitable title to the poem.



Answer – Greation, Greedr's Impact: A Refection 'Refection Creator', "Humanity's Deviation"

b) Are personification and metaphor used in the poem? Explain in 30-40 words

Answer – He creates his favourite – metaphor Spreading the worst disease – metaphor Greed births all the diseases – Refection God must be regretting – personification Attributing human emotions (regret) to god personifying him

c) What is the central idea of the poem? Explain in 30-40 words

Answer – God creates humans to spread love but humans only spread hatred and segregation. They have become selfish greedy. This selfishness is like a disease that poisons relationships and Separates people from what is good and spiritual.

d) Identify words or phrases where there may be errors in the poem.

Answer - He wants to be nothing but taking

In everything that he does God must be regretting.

Or

Man has proved him wrong Waiting nothing

e) What kind of person do you think the poet is? Base your answer on the poem given

Answer – Poet is a lover of humanity. One who cares for humanity, one who does not hate or Hatred and indifference shown by the humans towards each other. He believes god has sent humans to spread love all around but humans have forgotten the message of love and segregated everyone for which he was sent on this earth.

- f) Find the words from the poem which could mean the opposite of the following:-
- i) Restricting spending
- ii) Destroyed create

SECTION B – WRITING (50 MARKS)

1. Dear Editor,

I am Gargi Sharma, a ninth-grade student from Chandigarh, and I am writing to share my vision for India in 2030. As we stand on the cusp of a new decade, I believe our nation has the potential to become a global leader in various aspects.

In 2030, I envision India as a hub of innovation and sustainable development. A country where education is accessible to every child, fostering critical thinking and creativity. A nation that leads in renewable energy, addressing environmental concerns and mitigating climate change. I hope for a future where technology is harnessed for social good, narrowing the urban-rural divide and enhancing healthcare accessibility.



Furthermore, I aspire to see a society that celebrates diversity and equality, breaking free from stereotypes. Empowered youth actively participating in shaping policies, ensuring a brighter future for all.

It is crucial for us to focus on inclusive growth, environmental sustainability, and social harmony to turn this vision into reality. Together, let's work towards building a prosperous and harmonious India by 2030.

Sincerely,

Gargi Sharma Class IX Student Chandigarh

2. India, a tapestry of traditions and a mosaic of cultures, unfolds a captivating story through its diverse festivals and traditions. The nation's cultural kaleidoscope is a testament to its rich heritage, uniting people across regions in a celebration of uniqueness.

From the vibrant colors of Holi to the divine lamps of Diwali, each festival is a reflection of India's spiritual, social and historical tapestry. Diwali, the festival of lights, symbolizes the triumph of good over evil, while Holi, the festival of colors, fosters unity and joy. Navratri, celebrated with dance and devotion, showcases the country's deep-rooted religious fervor.

The diversity extends beyond religious festivities, encompassing regional traditions. The Onam festival in Kerala, marked by the mesmerizing Snake Boat Race, contrasts with the lively Durga Puja celebrations in West

Bengal. Each tradition is a cultural gem, preserving the essence of India's pluralistic identity.

Exploring India's festivals and traditions is a journey through time, connecting the present to a rich past. It not only showcases the country's cultural wealth but also fosters unity in diversity in religion and various festivals like Eid, Easter Gurpurab etc. making India a harmonious blend of tradition and modernity.

3. a) Actions speak louder than words.

Actions speak louder than words. In any realm of life, be it personal relationships, professional endeavors, or societal contributions, the impact of actions often surpasses the influence of mere words. One's deeds and behavior become the true reflection of their intentions and values. While words may convey promises and intentions, it is through consistent actions that trust is built, relationships are strengthened, and meaningful changes are brought about in the world. It is the tangible outcomes of our actions that leave a lasting imprint on the canvas of life, echoing far beyond the spoken expressions.

The influence of social media on society. In the contemporary landscape, the influence of social media on society is undeniable. This virtual realm has transformed the way people communicate, share information, and shape opinions. Social media platforms serve as powerful tools for global connectivity, enabling instant communication and the dissemination of diverse perspectives. However, the impact is not solely positive; it also brings challenges such as misinformation, cyberbullying, and the potential for addiction. The pervasive nature of social media underscores its role as a double-edged sword, requiring a careful balance between harnessing its benefits and addressing its drawbacks.



b) The value of perseverance.

Perseverance, an invaluable trait, is the driving force behind overcoming challenges and achieving long-term goals. It involves steadfast determination, resilience, and the ability to endure setbacks. Those who embrace perseverance understand that success often comes after numerous trials and failures. It fuels the journey towards personal and professional accomplishments, turning obstacles into stepping stones. In the face of adversity, individuals with perseverance not only stay committed to their objectives but also inspire others with their unwavering spirit, proving that resilience is a key ingredient for success.

c) It is better to travel than to arrive.

The journey often holds more significance than the destination, embodying the essence of personal growth and discovery. In the pursuit of goals or destinations, the experiences encountered during the journey contribute to one's character and understanding. The process of traveling offers valuable insights, teaching patience, adaptability, and a deeper appreciation for the diverse landscapes and cultures encountered along the way. The saying, "It is better to travel than to arrive," encourages individuals to relish the transformative journey itself rather than merely focusing on reaching a predefined endpoint.

4. Look at the picture given below and write a story in about 150 words.



Answers - In the heart of a sun-kissed afternoon, the schoolyard buzzed with excitement as students gathered for a friendly volleyball match. Laughter echoed against the surrounding walls as two spirited teams clashed on the dusty ground. The sun painted long shadows as the players leaped and dived, their faces flushed with determination and camaraderie. The ball sailed through the air like a fleeting dream, each serve met with enthusiastic cheers. Amidst the spirited rally, friendships deepened, and bonds strengthened. The atmosphere was electric with youthful energy, and the joy of the game transcended mere competition. As the match reached its climax, the setting sun cast a warm glow over the vibrant scene, etching a memorable tableau of camaraderie, teamwork, and the pure joy of playing the game they loved. The echoes of laughter and the thud of the ball resonated long after the final point was scored, creating cherished memories on that dusty schoolyard.

<u>SECTION C – GRAMMAR (50 MARKS)</u>

- 5. Revise the following sentences according to the given instructions.
 - a) Transform the sentence into a complex sentence: "Only the most obedient student in the class can do www.thewinningedge.co.in



this wrok."

Answer – None but the most obedient in the class can do this work.

b) Turn the sentence into a compound sentence using the given instruction: "Yesterday being a pleasant day, we decided to go out."

Answer – IT was a pleasant day yesterday so we decided to go out

c) Rewrite the sentence as a simple sentence: "We do not know where your brother and his to his friends are."

Answer – We do not know where about of your brother and his friends.

d) Change the sentence into indirect speech: "Raghav said to his wife, Let's admit our children to some other school next year."

Answer – Raghav suggested his wife that they should admit their children to some other school the following year

e) Convert the sentence into direct speech: "Joshila asked her husband if he had met her father the previous day."

Answer – Joshila said to her husband, 'did your meet my father yesterday?

f) Form a negative sentence as Instructed: "He fall to tell what he should sometimes."

Answer – Sometimes he does not know what to tell.

g) Transform the sentence into an exclamatory sentence: "Your painting is so beautiful!"

Answer – What a beautiful painting you have made.

h) Rewrite the sentence into a positive/affirmative form: "No sooner did the watchman arrive than he ran away."

Answer – As soon as the watchman arrived he ran away.

i) Change the sentence into active voice. "Why was I not informed of the matter earlier by them?"

Answer – Why didn't they inform me about the matter earlier

j) Convert the sentence into passive voice: "I didn't know that he was your friend."

Answer – It was not known to me that he was your friend.

- 6. Identify and provide the names of the grammatical terms or particles in the Underlined words in the following sentences.
 - a) Please come in.

In – adverb

b) He lives in Mumbal.



In – preposition

c) She must move forward.

Move - verb

d) She has been a forward for five years.

Forward – Noun

e) The forward movement of my vehicle could not be seen by them.

Forward – adjective

f) You can forward the mail to my new address.

Forward – verb

g) Argentina was able to down France in the final.

Argentina – noun

h) The lift will go down immediately.

Down - adverb

i) He had to go down the road to find a ship.

Down – adjective

j) The network was down for some time.

Down - adjective

- 7. The following are examples of some figures of speech. Name them.
 - a) Usain Bolt is faster than cheetahs. Hyperbole
 - b) Prakash is the Virat Kohll of our class. Metaphor
 - c) Virat Kohli is not a bad cricketer. Litotes
 - d) He is as old as your father. Simile
 - e) She sells seashells by the seashore. Alliteration
- 8. Write the idioms, phrases or phrasal verbs which mean the following:
 - a) To be surprised Taken a back, Jump out of one's skin
 - b) Resemble takes after, bear a resemblance to, look like

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- c) Postpone Put off
- d) Camel Ship of desert
- e) Chase Hunt down, Run after
- f) A wicked person who pretends to be a friend Frumenty, wolf in sheep's clothing seen in the grass
- g) A person who spoils others happiness Kill joy
- h) Faint or lose consciousness Pass out, block out
- i) Remember Bear in mind, etched in memory,
- j) Stop making an effort To throw in the tunnel
- 9. Re-write the following using correct tenses:
 - a) She cooked food right now.

She is cooking food right now.

b) He is writing something since morning.

He has been writing since morning.

c) She is playing football every day.

She plays football every day.

d) The movie has started three minutes ago.

The movie started three minutes ago.

e) My brother came home while I did my homework.

My brother came home while I was doing my homework.

- 10. Fill in the blanks using correct or appropriate modals.
 - a) When he was young, he would /used to play football with his friends every afternoon.
 - b) Rani suggested that they should stay indoors.
 - c) You <u>must</u> come to school tomorrow. It is compulsory.
 - d) You seem to be tired. Shall I make tea for your?
 - e) You might just as well get a better job next month.
- 11. Answer the following questions.
 - a) What is the plural form of sheep? Seep
 - b) What is the noun form of 'irritate'? Irritation
 - c) Name the type of sentence used to express a command or request. Imperative
 - d) Rewrite the following sentence in the present perfect tense: 'He will be a teacher." He has been a
 - e) What is the opposite gender of 'goose'? Gander



SUBJECT: GENERAL KNOWLEDGE

Ins	tructions:			
2. ⁷ 3. I 4. /	There are a total of 75 quest There is no negative marking Do not over write, dual answ All questions to be answered Which is the highest moun a) Mount Kilimanjaro Answer: c) Mount Everest	g for any wrong answer. Vers shall not fetch any I I on the question paper	marks.	d) Mount Denali
		meters, is the highest i	mountain peak in the world.	
2.	What is the name of the land a) Sahara Desert Answer: c) Antarctic Desert The Antarctic Desert is the	b) Artic Desert t	d, which is not a hot desert? c) Antarctic Desert rld, and it is a cold desert.	d) Atacama Desert
3.		b) Spain and Moroccoocco e narrow waterway tha		
4.	a) Australia Answer: a) Australia The Great Barrier Reef, the	b) Brazil e world's largest coral re o the northeast of Austr	ef system, is located off the coas c) Philippines ef system, is located off the coas alia. The reef is famous for its bi	d) Thailand st of Australia . It is
5.	What is the imaginary line called?	that divides the Earth in	to the Northern Hemisphere and	d Southern Hemisphere
	a) Prime Meridian Answer: b) Equator Explanation: a) Prime Mer the Eastern and Western H b) Equator- The Equator is Hemispheres. It lies at 0° la c) Tropic of Cancer- The Tro It marks the northernmost d) Tropic of Capricorn- The	emispheres. It is located the imaginary line that d stitude. opic of Cancer is the ima point where the sun cal Tropic of Capricorn is the	c) Tropic of Cancer e Meridian is the imaginary line dat 0° longitude. divides the Earth into the Norther aginary line that lies at approximate appear directly overhead. The imaginary line located at approximate sun can appear directly overhead.	ern and Southern ately 23.5° North latitude.
6.	Which river is the longest ia) Amazon River	n the world? b) Nile River	c) Mississippi River	d) Yangtze River



Answer: b) Nile River

The Nile River is the longest river in the world.

Explanation: b) Nile River - The Nile River is the longest river in the world, stretching about 6,650 km (4,130 miles). It flows through northeastern Africa and is a lifeline for countries like Egypt and Sudan.

a) Amazon River - The Amazon River is the second longest river in the world, approximately 7,062 km (4,345 miles) long. However, it is the largest in terms of water volume.

		gtze River is the longes	t river in Asia, measurir	round 3,766 km (2,340 miles) long. ng approximately 6,300 km (3,917 industry.				
7.	What is the term for a narrow strip of land it connects two larger land masses and is surrounded by water on two sides?							
	a) Isthmus	b) Peninsula	c) Archipelago	d) Platzau				
	Answer: a) Isthmus							
	Explanation : a) Isthmus- A surrounded by water on tw		trip of land that conne	cts two larger landmasses and is				
	b) Peninsula- A peninsula i the mainland on one side.	s a piece of land that is	surrounded by water	on three sides but still connected to				
				gether in a large body of water. above the surrounding area, often				
8.	Which African country is ke a) Konya Answer: b) Rwanda	b) Rwanda	c) Tanzania	d) Nigeria				
	Rwanda is known as the "L Explanation : c) Tanzania - but it is not known as the '	Tanzania is famous for	Mount Kilimanjaro, Se	ous terrain. rengeti National Park, and Zanzibar,				
9.	What is the largest planet	in our solar system?						
	a) Venus	b) Mars	c) Jupiter	d) Saturn				
	Answer: c) Jupiter							
	but is known for its thick, t	ond planet from the Su oxic atmosphere and e	in and is almost similar xtremely high surface	in size to Earth. It is not the largest temperatures.				
		rgest planet in our sola	r system, with a diame	ter of approximately 143,000 km. famous for its beautiful ring system.				
	However, it is smaller than	- ·	our sorar system and 18	ramous for its beautiful fing system.				
10.	What is the highest waterf	all in the world, located	d in Venezuela?					
	a) Angel Falls Answer: a) Angel Falls	b) Niagara Falls	c) Victoria Falls	d) Iguazu Falls				

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National Park in the Gran Sabana region of Venezuela.

The **highest waterfall in the world** is **Angel Falls** located in **Venezuela**. Angel Falls has an astonishing height of **979 meters** (3,212 feet), with a continuous drop of **807 meters** (2,648 feet). It is located in the Canaima



11.	Which country is known as a) South Korea Answer: c) Japan Japan is known as the "Land Explanation: d) Thailand - To nature of its people.	b) China d of the Rising Sun".	Sun"? / c) Japan "Land of Smiles" due to the frie	d) Thailand ndly and welcoming
12.	Carthage was a major city of	b) Libya o (also known as Cartha of the ancient Mediterra	t city of Carthago? c) Tunisia ge) is located in Tunisia, a count nean world and was the center of s, on the coast of the Mediterran	of the Carthaginian
13.	a) Cleopatra Answer: a) Cleopatra The Egyptian queen known the last active ruler of the F	b) Nefertiti for her relationship wit tolemaic Kingdom of Eg patra was famous for he	nship with Julius Caesar and Mac) Hatshepsut h Julius Caesar and Mark Anton sypt and played a significant role or intelligence, political acumen,	d) Nefertari y was Cleopatra. She was in the political landscape
14.	a) World War I Answer: c) Korean War The war fought from 1950 to conflict between North Kore	b) World War II to 1953, often referred to rea (supported by China of the United States). The	rred to as the "Forgotten War"? c) Korean War to as the "Forgotten War," is the and the Soviet Union) and Soutle war ended in an armistice, but ided to this day.	Korea (supported by the
15.	Who was the first woman t a) Bessie Coleman Answer: b) Amelia Earhart Amelia Earhart was the firs	b) Amelia Earhart	c) Harriet Quimby	d) Beryl Markham
16.	a) The Great Pyramid of Giz c) The Colossus of Rhodes Answer: c) The Colossus of The ancient wonder of the the Colossus of Rhodes. It victory of Rhodes over Cypt	Rhodes world that was a colossa was a giant bronze statu rus in 305 BC. The statue	b) The Hanging Gardens of Bab d) The Lighthouse of Alexandri al statue in Greece, dedicated to e, about 33 meters (108 feet) ta e stood at the entrance of the ha Ancient World. It was destroyed	the sun god Helios , was ll, built to celebrate the rbor of the island of



NTORING FOR SUCCESS							
	the first woman	to win a Nobel Prize and	remains the only person to win	Nobel Prizes in two			
different	different scientific fields?						
a) Marie	Curie	b) Rosalind Franklin	c) Jane Goodall	d) Barbara McClintock			
•	a) Marie Curie	•	•	,			
	The first woman to win a Nobel Prize was Marie Curie . She won the Nobel Prize in Physics in 1903 (shared						
			l) for their work on radioactivity.	· · · ·			
			of the elements radium and pol				
		-	ent scientific fields: Physics and				
only pers	on to have won i	iobei Prizes in two differ	ent scientific fields. Physics and	chemistry.			
مام نمایی میل ۱۵		han Calumahua fimat wawa	o to the American				
	year did Christop	her Columbus first voyag		-1) 1776			
a) 1492	\	b) 1520	c) 1607	d) 1776			
Answer:							
•			as in 1492 . Sponsored by Spain, h				
	_	_	e to Asia. Instead, he landed on a				
which m	arked the beginni	ng of European explorati	on and colonization of the Amer	icas. Columbus's journey is			
often cre	dited with openir	ng the door for European	colonization of the New World.				
19. What wa	s the name of the	ship on which Charles D	arwin sailed during his voyage tl	hat led to the theory of			
evolution	n by natural select	tion?					
a) Santa	Maria	b) HMS Beagle	c) Mayflower	d) Endeavour			
•	b) HMS Beagle	,		,			
	•	he HMS Beagle during hi	s voyage that led to the theory o	of evolution.			
20. Who is o	ften called the "Fa	ather of the Indian Space	Program" and was the founding	director of ISRO (Indian			
	search Organisati		. rogium and was the rounding	s an estar or isno (maian			
•	ram Sarabhai	ony:	b) Dr. A.P.J. Abdul Kalam				
•	mi J. Bhabha						
•		abbat	d) Dr. C.V. Raman				
	a) Dr. Vikram Sar		C				
Dr. Vikra	m Sarabhai is cail	ed the "Father of the Ind	ian space Program .				
24 \\/ :	:	than of Madaus Dhosias s		و بين شيار			
			and is famous for his theory of re	•			
a) Isaac I		b) Albert Einstein	c) Galileo Galilei	d) Stephen Hawking			
	b) Albert Einstein						
			Physics" for his theory of relativi	· ·			
Explanat	ion : c) Galileo Gal	lilei - Galileo Galilei is kn	own as the "Father of Modern S	cience".			
	cient civilization is		a army, discovered in the tomb o				
a) Inca		b) Mayan	c) Roman	d) Qin			
Answer:	d) Qin						
The Qin	dynasty is known	for the terracotta army i	n the tomb of China's first empe	ror.			
23. What is t	he chemical symb	ool for the element gold?)				
a) Go		b) Ge	c) Gd	d) Au			
Answer:	d) Au	•	•	,			
	nical symbol for g	old is Au.					
	5,11123.13.8						
24. Who is c	edited with the d	iscovery of the first antib	piotic, penicillin?				
a) Louis I	Pasteur	b) Alexander Fleming	c) Jonas Salk	d) Robert Koch			
•			nningedge.co.in				
www.tiicwiiiiiiigcagc.co.iii							



a) Saturn

Answer: b) Alexander Fleming

Alexander Fleming discovered penicillin, the first antibiotic.

25. Which planet in our solar system has the most extensive ring system? b) Jupiter

	Answer: a) Saturn Saturn has the most extens	sive ring system in the	solar system.	
26.	atom and two oxygen atom b) H_2O - This is the chemical oxygen atom.	b) H ₂ 0 ozone is O3. s the chemical formula ns. al formula for water, no	ot ozone. H2O represents	d) 0 ₃ ozone. CO2 consists of one carbon s two hydrogen atoms bonded to on molecule of oxygen, which consists
27.	called: a) Fermentation Answer: c) Photosynthesis Explanation: a) Fermentati absence of oxygen. It is cor b) Respiration - Respiration energy, and oxygen is cons c) Photosynthesis- Photosy produce glucose and release	b) Respiration ion - Fermentation is a mmonly used by yeast is a process in both partners. It is the process se oxygen. It is the prination is the process by	c) Photosynthesis process that breaks down and some bacteria. It is and animals where by which plants use sunling way plants make the	d) Transpiration In glucose into energy in the glucose is broken down to release ight, carbon dioxide, and water to eir food. through small pores in their leaves,
28.	Which scientist formulated a) Isaac Newton Answer: a) Isaac Newton Isaac Newton formulated t	b) Albert Einstein	c) Galileo Galilei	d) Stephen Hawking
29.	What is the chemical name a) Sodium chloride Answer: a) Sodium chlorid The chemical name for tab	b) Calcium carbonate le	e c) Potassium nitrate	d) Magnesium sulphate
Ex	olanation: b) Calcium carbor	nate - Chemical Formu	la : CaCO₃	
c) I	Potassium nitrate - Chemica	l Formula: KNO₃.,Cher	nical Name: Common sal	lt
d)	Magnesium sulphate - Chen		Chemical Name: Hydroge winningedge.co.in	en sulfate

c) Uranus

d) Neptune



	below its boiling point? a) Boiling	b) Evaporation	c) Condensation	d) Sublimation		
	Answer: b) Evaporation Evaluation: a) Poiling P	oiling is the process wi	horo a liquid changes into va	nor at its bailing point		
	throughout the liquid, no		here a liquid changes into va	por at its boiling point,		
		•	re a liquid changes into vapo	r at the surface of the liquid,		
	occurring at temperature	•				
		• .	here vapor changes into liqu	uid when it cools down.		
	d) Sublimation - Sublimat	ion is the process whe	re a solid changes directly in	to a vapor without passing		
	through the liquid state.					
31.		ch element has the ato	omic number 92 and is the he	eaviest naturally occurring		
	element on Earth?	1 \ 21 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ 1 •	NAL .		
	a) Uranium	b) Plutonium	c) Thorium	d) Neptunium		
	Answer: a) Uranium	number 03 and the he	aviost naturally accurring al	amont on Forth is Hunnium It i		
			eaviest naturally occurring el	ement on Earth is Uranium . It i		
	widely used as a fuel in n	uciear reactors.				
32.	What is the phenomenon where white light is separated into its constituent colors when passing through a					
	prism?					
	a) Reflection	b) Refraction	c) Dispersion	d) Diffraction		
	Answer: c) Dispersion			·		
	This phenomenon is calle	d Dispersion . It occurs	when light passes through a	prism, and different		
	wavelengths of light are b	ent by different amou	ints, creating a spectrum of o	colors.		
22	Mha is known for formul	ating the theory of rela	ativity and is famous for the	aguation F-maA22		
33.		b) Albert Einstein	ativity and is famous for the	•		
	a) Isaac Newton Answer: b) Albert Einstei		c) Niels Bohr	d) Max Planck		
			ity, which revolutionized phy	usics and is famous for the		
	equation E=mc² , which re			ysics, and is famous for the		
	equation 2 me, which to	indes energy and mass	•			
34.	What is the study of fossils and prehistoric life, providing insights into the history of Earth and the evolution					
	of organisms?					
	a) Archaeology	b) Paleontology	c) Geology	d) Anthropology		
	Answer: b) Paleontology					
	Explanation: a) Archaeology- Archaeology is the study of human history and prehistory through the					
	excavation of artifacts, structures, and other physical remains.					
	b) Paleontology- Paleontology is the study of fossils and prehistoric life, focusing on understanding the					
	history of Earth and the evolution of organisms.					
	a) Carlani, Carlani, tark	c) Geology- Geology is the study of the Earth's physical structure, substances, history, and the processes tha				
		the state of the s				
	have shaped it over time.		umans human societies cul	Itures, and their development		



TORING FOR SUCC	ESS			
35.	a) Earth Answer: b) Mars	b) Mars	led the "Red Planet" due to c) Venus ts reddish appearance is du	d) Jupiter
	surface.	rea hance is mais.	to readistruppedratice is ad	e to non oxide (rust) on its
36.	when it vanished during mother ship a mere 1 ho a) Titanic Answer: d) Titan	a deep-sea expedition our and 45 minutes into b) Atlas	in the Atlantic Ocean. This il the dive. What was the nar c) Navi	the center of international focus II- fated vessel lost contact with its me of the submersible? d) Titan on a mission to explore the wreck
37.	Who won the 2023 Wim	ibledon Men's title?		
	a) Novak Djokovic	b) Rafael Nadal	c) Carlos Alcaraz	d) Danil Medvedev
	Answer: c) Carlos Alcara Novak Djokovic won the history.		's title. He is one of the mos	st successful tennis players in
38.	What is the national flow	wer of India?	. (
	a) Rose Answer: b) Lotus The national flower of Ir	b) Lotus ndia is the Lotus . It syml	c) Sunflower	d) Jasmine Indian culture.
39.	south pole region of the a) Pragyan			3 spacecraft on the uncharted Module during the mission? d) Abhigyan
	Answer: b) Vikram The name of the Lander Moon's south pole.	Module during the Cha	ndrayaan-3 mission was Vik	kram. It successfully landed on the
40.	In which year was the U	nited Nations (UN) four	ided?	
	a) 1919	b) 1945	c) 1951	d) 1963
	Answer: b) 1945 The United Nations (UN peace.) was founded in 1945 a	fter World War II to promo	te international cooperation and
41.	Which of the following i	s the largest crater on t	he moon?	
	a) Aristoteles	b) Bailey	c) Theophilus	d) South Pole-Aitken basin
	Answer: d) South Pole-A The largest crater on the the solar system.		e-Aitken basin . It is one of t	the largest and oldest impact craters in
42.	Who is often called the	"Nightingale of India" a	nd was a prominent freedor	n fighter and poet?
	a) Sarojini Naidu	b) Rani Lakshmibai	c) Kalpana Chawla	d) Mother Teresa
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Answer: a) Sarojini Naidu Sarojini Naidu is known as the "Nightingale of India". She was a renowned poet and a prominent leader in India's freedom struggle. 43. What is the official language of Brazil? b) Spanish c) French d) Italian a) Portuguese Answer: a) Portuguese The official language of Brazil is Portuguese. It is the only country in South America where Portuguese is spoken. 44. What is the capital city of Ukraine? d) Budapest a) Baku b) Bucharest c) Kyiv Answer: c) Kyiv The capital city of Ukraine is Kyiv. **Explanation**: b) Bucharest - Budapest is the capital city of Hungary b) Bucharest - Bucharest is the capital of Romania a) Baku - Baku is the capital city of Azerbaijan 45. In which country is the famous city of Venice, known for its canals and gondolas? c) Italy a) Greece b) Spain d) France Answer: c) Italy The famous city of **Venice**, known for its canals and gondolas, is located in **Italy**. 46. What is the currency of Japan? a) Won b) Peso c) Yen d) Baht Answer: c) Yen **Explanation:** a) Won - The won is the currency of South Korea and North Korea, not Japan. b) Peso- The peso is the currency used in several countries, including Mexico, the Philippines, and some other Latin American countries, but not Japan. c) Yen- The yen is the official currency of Japan, represented by the symbol "¥." d) Baht - The baht is the currency of Thailand, not Japan. 47. Who is the current President of Palestine? a) Mahmoud Abbas b) Olaf Scholz c) Md Bin Salem d) Yasser Abbas **Answer: a) Mahmoud Abbas** The current President of Palestine is Mahmoud Abbas. He has been in office since 2005 and is a key figure in Palestinian politics, leading the Palestinian Authority. 48. In which country would you find the ancient city of Petra, famous for its rock-cut architecture and the Treasury? a) Jordan b) Egypt c) Lebanon d) Turkey Answer: a) Jordan Petra, a famous archaeological site known for its rock-cut architecture and water conduit system, is located

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c) Denier

d) Forint

in Jordan. It was once the capital of the Nabatean Kingdom.

b) Tuva

49. What is the currency of Israel?

a) Shekel



Answer: a) Shekel

Explanation: a) Shekel - The shekel is the official currency of Israel

- b) Tuva- The tuva is not the currency of Israel. It is not a recognized currency.
- c) Denier- The denier is not a currency used in Israel. It is an old term for a unit of weight or currency in medieval Europe.
- d) Forint- The forint is the currency of Hungary, not Israel

	a) Former the formers the c	urrency of Hungary, not	. israei			
50.	Who is known for painting the "Mona Lisa" and "The Last Supper and is considered one of the greatest artists of all time?					
	a) Pablo Picasso Answer: c) Leonardo da Vir	b) Vincent van Gogh Ici	c) Leonardo da Vinci	d) Rembrandt		
	Leonardo da Vinci is the art and iconic works of art in hi	•	ona Lisa" and "The Last Supper'	, two of the most famous		
51.	How many consonants are t	there in the English Lang	guage?			
	a) 21 Answer: a) 21	b) 22	c) 23	d) 20		
		re are 21 consonants . T	These include letters like B, C, D,	F, G, etc.		
52.	Name the Primary Colors?					
	a) Red, Yellow and Blue c) Green, Blue and Yellow		b) Red, Green and Blue d) Green, Red and Black			
	Answer: a) Red, Yellow, and	d Blue	d) Green, Neu and Black			
		Yellow, and Blue. Thes	se colors cannot be made by mix	ing other colors and are		
53.	Who wrote 'Malgudi Days'?					
	a) KR Narayan Answer: c) R K Narayan	b) Sudha Moorthi	c) R K Narayan	d) Barbara McClintock		
		f 'Malgudi Days' , a fam	ous collection of short stories se	t in the fictional town of		
54.	Who invented the 'Watch'? a) Peter Henlein	b) Johann Cochlaus	c) Robert Hooke	d) Thomas Tompion		
	Answer: a) Peter Henlein	System Colmans	of Hosele Hooke	a) momas rempiem		
	Peter Henlein , a German loconsidered the first to creat		n inventing the watch in the earl	y 16th century. He is often		

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c) France

d) Peru

55. Where would you be if you were standing on the 'Spanish Steps?

b) Italy

a) Spain

Answer: b) Italy



The **Spanish Steps** are located in **Italy**, specifically in **Rome**. They are a famous set of stairs that lead from the Piazza di Spagna to the Trinità dei Monti church.

56.	How many minutes are the a) 10080 Answer: a) 10080 A full week has 10,080 min	b) 11080	c) 10180 c 60 minutes).	d) 11180
57.	a) Norway Answer: a) Norway	b) Sweden	oth Pole, but where was he from c) Denmark e first person to reach the South	d) England
58.	Who discovered that the Ea a) Nicholas Copernicus c) Aristarchus Answer: a) Nicholas Coper Nicholas Copernicus was the revolves around the Sun.	nicus	Sun? b) Galileo Galilei d) Thomas Heath d the heliocentric model, which	states that the Earth
59.	What is the national anima a) Panda Answer: a) Panda The Panda is the national a conservation efforts.	b) Dragon	c) Tiger ndangered species and is a symb	d) Snow Leopard ool of China's wildlife
60.	a) Finland Answer: c) Norway Norway is famous for its st steep sides, and Norway is	b) Sweden unning fjords, vikings , ar renowned for its breatht	ngs, and the Northern Lights? c) Norway nd the Northern Lights . Fjords areaking natural landscapes, includige and the spectacular auroras the	ing these features. The
61.	•	b) UK was hosted by the USA .	c) Australia This summit was focused on dischoology, particularly for artificia	



	a) Thailand Answer: b) Myanmar The Kaladan Multi-Modal	b) Myanmar Transit Transport Project	c) Bangladesh t (KMTTP) is aimed at connecting	d) Cambodia
		enhance connectivity be	etween India and Myanmar thro	
63.	Which African country is kr a) Kenya Answer: c) Uganda:	b) Tanzania	c) Uganda	d) Mozambique
	_		name was given by Winston Chu of rare wildlife and beautiful na	_
64.	Who was the first person to a) Yuri Gagarin Answer: a) Yuri Gagarin	o travel to space? b) Neil Armstrong	c) Valentina Tereshkova d) John	n Glenn
	The first person to travel to when he orbited the Earth		, a Soviet cosmonaut, who made ostok 1.	history on April 12, 1961,
65.	a) Lionel Messi Answer: a) Lionel Messi	b) Erling Haaland on d'Or prize for the best	ze for the best player in 2023? c) Kylian Mbappé player in 2023. Messi has won n football players in history.	d) Cristiano Ronaldo nultiple Ballon d'Or
66.		b) Payment Security ity with Payment Security.	ciated with. c) Bio-technology It is a process of replacing sensiting other than the specific transa	
67.	owing to the present crisis a) Operation Ajay Answer: a) Operation Ajay The operation launched by	in the region recently? b) Operation Abhay India to bring back its ci	ia, to bring back its citizens from c) Operation Atal tizens from Israel and Palestine e safe evacuation of Indian natio	d) Operation Arun
68.	Which city is the host of 20	28 Olympics?		

62. Kaladan Multi-Modal Transit Transport Project (KMTTP) aims to connect Kolkata Seaport with which country?

	a) Paris Answer: c) Los Angeles			
	Answer: c) Los Angeles	b) Rome	c) Los Angeles	d) Geneva
	The city hosting the 2028 United States, marking its		eles . The Games will be held in lympics.	this iconic city in the
69.	Raunak Sadhwani, who wa a) Squash Answer: c) Chess	as seen in the news, play b) Tennis	s which sports? c) Chess	d) Badminton
	•	as been in the news rece	ntly, plays chess . He is a young	and talented Indian ches
			nternational chess tournaments	
70.	The Indian Cabinet has red	cently declared which da	y as 'National Space Day in Indi	a?
	a) August 20	b) August 23	c) August 25	d) August 27
		nents in space exploratio	'National Space Day' in India.' in and honor the contributions on).	
71.	a) Kidambi Srikanth Answer: b) Viktor Axelser Viktor Axelsen clinched th	b) Viktor Axelsen n ne Japan Open 2023 sing	pen 2023 singles men's title? c) Lakshya Sen les men's title in badminton. H nce in international tournamen	
72.	Which one is the longest ra) Kaveri	iver in South India? b) Godavari	c) Krishna	d) Vaigai
	Answer: b) Godavari The longest river in South eastward across the India		ver. It originates in the state of y of Bengal.	Maharashtra and flows
73.	a) Lakshya Sen Answer: b) HS Prannoy	b) HS Prannoy	ustralian Open badminton tour c) K Srikanth as the runner-up at the Austra l	d) Chirag Shetty
	tournament. He reached	the finals but did not win	the title.	

THE WINNING EDGE



The **2017 Vijay Hazare Trophy** of cricket was won by **Tamil Nadu**. This tournament is a domestic one-day cricket competition in India, and Tamil Nadu emerged victorious in the 2017 edition.

75. World's Deepest Railway Station is being build in?

a) USA b) France

c) China

d) India

Answer: c) China

The world's deepest railway station is being built in **China**. This station, located underground, is being developed to accommodate the growing transportation needs in the country.