

Home Assignment – May 03, 2020
Class VII

English

Q1. Like the classic of H.G.Wells ‘The Time Machine’, you came across a wonderful gadget that teleported you 15 years in the future. One day, you somehow find a way to send a message to your younger self. What would your advice or warning be? Write a note to your younger self in 100- 120 words. You may use illustrations or sketches if required.



Q2. The wonderful world of books takes us to the magical land of fairies, elves, unicorns, giants, gnomes and what not! Given a choice which magical creature would you like to be and why? Write a poem of not more than four stanzas depicting your point of view.



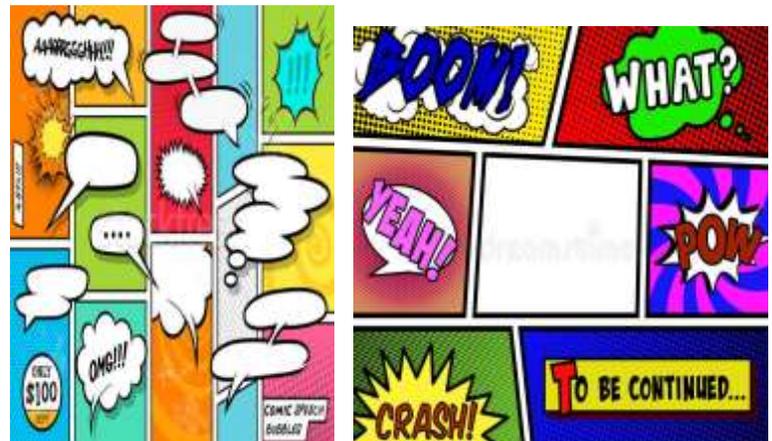
Q3. Imagine that your parents have asked you to manage the home for one full day. They are at home but you are IN CHARGE!

Share your thoughts in a paragraph of about 100-120 words on how you will manage the house, what you will cook, what are the things you will do, the ways you will keep them cheerfully occupied.

Remember, you are to do your utmost to make it the best day of their lives!

Q4. Crack! kaboom! pow! wham! vroom! What do these onomatopoeic words remind you of? Comic books of course!

Create a comic strip of not more than 8 frames/picture boxes. You may also use interjections like ‘Oops!’, ‘Wow!’, ‘Bravo!’ to make the dialogues interesting. Take help from the examples of onomatopoeic speech bubbles shown here:



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हिंदी

प्रश्न 1. निम्नलिखित कहानी को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए-

मूल्य अमूल्य हैं

एक आठ वर्ष का लड़का अपनी छोटी बहन के साथ बाज़ार से जा रहा था। अचानक उसे लगा कि उसकी बहन पीछे रह गई है। पीछे मुड़कर देखा तो जाना कि वह एक खिलौने की दुकान पर किसी वस्तु को देख रही है। उसने बहन से पूछा, "कुछ चाहिए तुम्हें ?" बहन ने एक गुड़िया की ओर इशारा किया। भाई ज़िम्मेदार बनकर दुकानदार से बोला- "वो गुड़िया मेरी बहन को दे दीजिए।" भाई - बहन का प्यार दुकानदार देख रहा था। वह बच्चे का प्रगल्भ व्यवहार देखकर आश्चर्यचकित भी हुआ। बच्चे ने दुकानदार से पूछा, "सर ! कितनी कीमत है इस गुड़िया की ?" दुकानदार एक शांत व्यक्ति था। उसने जीवन के कई उतार- चढ़ाव देखे थे। उसने बड़े प्रेम और अपनत्व से पूछा, "बताओ बेटे , आप क्या दे सकते हो ?" बच्चे ने वो सारी सीपियाँ जेब से निकाल कर दे दीं , जो थोड़ी देर पहले उसने और उसकी बहन ने समुद्र तट से बीनी थीं। दुकानदार ने सब लेकर यूँ गिनना शुरू किया जैसे कोई पैसे गिन रहा हो। उसने बच्चे की तरफ देखा तो बच्चा बोला , "कुछ कम हैं क्या ?" दुकानदार ने जल्दी से कहा , " नहीं ये तो इस गुड़िया की कीमत से ज़्यादा हैं।" ये कहकर उसने कुछ सीपियाँ लौटा दीं। बच्चा वो गुड़िया और सीपियाँ लेकर चला गया। तब वहाँ के कामगार ने मालिक से पूछा कि आपने इतनी महँगी गुड़िया केवल कुछ सीपियों के बदले क्यों दीं ? दुकानदार बोला, "हमारे लिए ये केवल सीपियाँ हैं पर उसके लिए ये बेहद मूल्यवान हैं। इस उम्र में वह नहीं जानता है कि पैसे क्या होते हैं। पर जब वह बड़ा होगा तब उसे याद आएगा कि उसने सीपियों के बदले गुड़िया खरीदी थी। तब उसे मेरी याद जरूर आएगी और वह सोचेगा कि इस दुनिया में अच्छे लोग भी रहते हैं। यही बात उसके अंदर सकारात्मक सोच बढ़ाने में मदद करेगी और उसे अच्छा इंसान बनने के लिए प्रेरित करेगी।"

1. उपरोक्त कहानी के मुख्य पात्रों की दो- दो विशेषताएँ लिखिए।
2. दुकानदार ने बच्चे का भला किस उद्देश्य से किया ?
3. कहानी में भाई -बहन सीपियाँ एकत्र करते हैं। आपकी रुचि किन चीजों के संग्रह में है ?

प्रश्न 2. दिए गए वर्णों में से स्वर एवं व्यंजन अलग अलग करके नीचे तालिका में लिखिए -

म, ज, औ, श, ई, द, ऋ, ऊ

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प्रश्न 3: 'र' के उचित रूप का प्रयोग कीजिए -

धम	—		सिफ़	—
वण	—		किया	—
डम	—		गमी	—
पदशन	—		दीघ	—
टक	—		आशीवाद	—

प्रश्न 4 निम्नलिखित शब्दों और उनके वर्ण-विच्छेदों का मिलान कीजिए-

वर्ग-1	वर्ग-11
(i) ग्रामीण	(क) क् + ऋ + प् + आ
(ii) कृपा	(ख) आ + क् + अ + र् + ष् + अ + ण् + अ
(iii) निंदा	(ग) प् + र् + अ + त् + ई + क् + ष् + आ
(iv) पुण्य	(घ) स् + त् + र् + इ + य् + आँ
(v) प्रतिज्ञा	(ङ) प् + अ + व् + इ + त् + र् + अ
(vi) पवित्र	(च) श् + र् + ई + म् + अ + त् + ई
(vii) श्रीमती	(छ) न् + इ + अनु० + द् + आ
(viii) प्रतीक्षा	(ज) ग् + र् + आ + म् + ई + ण् + अ
(ix) आकर्षण	(झ) प् + र् + अ + त् + इ + ज् + ज् + आ
(x) स्त्रियाँ	(ञ) प् + उ + ण् + य् + अ

- **पंचमाक्षर का नियम:** हिंदी में अनुस्वार के स्थान पर पंचम वर्ण का प्रयोग किया जाता है। अनुस्वार के बाद जिस वर्ण का व्यंजन आता है; अनुस्वार उसी व्यंजन के वर्ण के पंचमाक्षर के रूप में प्रयुक्त होता है।
उदाहरण के लिए- चंपा=चम्पा, पंकज=पङ्कज

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- पंचम वर्णों के प्रयोग के लिए वर्णमाला याद करें।

प्रश्न 5. निम्नलिखित शब्दों को पंचमाक्षर का प्रयोग करके पुनः लिखिए-

1. हिंदी
2. कंचन
3. संत
4. पंजाब
5. पंडित
6. गंगा

प्रश्न 6. नीचे दिए गए चित्र को देखकर मन में उठे विचारों को 35 से 40 शब्दों में लिखिए-



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Mathematics

Topic : Algebra and Simple Equations

In the previous session we discussed about the algebraic expressions and equations. Let us now discuss about terms: Like, Unlike and how to combine Like terms.

Like terms are terms that contain the same variables raised to the same power. Only the numerical coefficients are different. In an expression, only like terms can be combined. We combine like terms to shorten and simplify algebraic expressions, so we can work with them more easily. To combine like terms, we add the coefficients and keep the variables the same. We can't combine unlike terms because that's like trying to add apples and oranges!

For example: $3x + 5x = 8x$, or $2x^2 - 4x^2 = -2x^2$, $3x^2 - 7x^2 = -4x^2$

$$2z^2 + 3z^2 - 6y = 5z^2 - 6y$$

whereas $3x + 5y$ or $3x^2 - 3x$ cannot be combined as they are not like terms.

Terms like x^2yz and xy^2z look a lot alike, but **they are not and cannot be added or subtracted.**

Q1. Make a real life statement in simple language corresponding to each of the following algebraic expression:

(i) $y + 6$

(ii) $t - 6$

(iii) $3x + 7$

(iv) $2y - 6$

(v) $2n - k$

(vi) $-7p$

Q2. Simplify the following expressions.

(i) $x + 2 + 5$

(ii) $5e + 5e^2 - 5e$

(iii) $x^2 + 5y - 3y$

(iv) $3a + 2a + 5a$

(v) $3u + u + 2u^2$

FACTORIZATION

In Mathematics, factorization or factoring consists of writing a number as a product of several factors. For example, 3×5 is a factorization of the integer 15. In algebra **$4y + 32$ can be factorized as $4(y + 8)$ or $7 - 7z$ can be factorized as $7(1 - z)$ or $12 - 16x = 4(3 - 4x)$.**

Using above concept, solve the following questions:

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Q3. Factorize the following:

(i) $6 + 12f$

(ii) $15 + 27x$

(iii) $10p + 20$

(iv) $18 + 45r$

(v) $24d - 30$

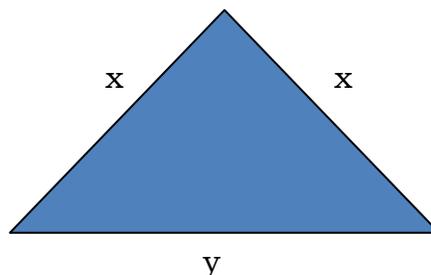
Q4. Let Kanika's present age be x years. Complete the following table showing ages of her relatives:

SITUATION (described in simple language)	EXPRESSION
Her Brother is two years younger	
Her father's age exceeds her age by 35 years	
Her Mother's age is 3 years less than that of her father	
Her grandfather's age is 8 times her age	

Q5. If m is a whole number less than 5, complete the table:

m					
$2m-5$					

Q6. What is the perimeter of the triangle given below:

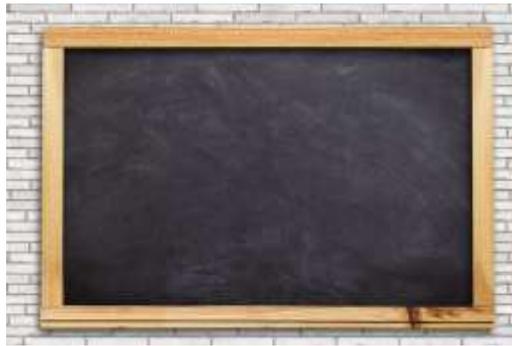


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Q7. Savitri has a sum of Rs. x . She spent Rs 1000 on grocery, ₹ 500 on clothes, ₹ 400 on education and received ₹ 200 as gift. Write an expression to show money left with her.

Q8. Length and breadth of a school bulletin board is r cm and t cm respectively.

- (i) What will be the length of the aluminium strip required to frame the board?
- (ii) If x nails are required to repair one board, how many nails are required to repair 15 such boards?
- (iii) What will be the expenditure for making 23 boards, if the carpenter charges ₹ c per board?



Q9. Distributive property rule states that $a(b + c) = a*b + a*c$. (* means multiplication).

Using this rule, solve the following:

(i) $4(h + 1)$

(iii) $(-3 + r)8$

(v) $3(6 + 2p)$

(ii) $2(-3b - 5)$

(iv) $6(3q - 3)$

Q10. Solve the following equations:

(i) $b - 32 = 7$

(iii) $3(x + 5) = 18$

(iv) $5x - 3 = x + 17$

(ii) $q - (-2) = 18$

(iv) $4x + 7 = 15$

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Q11. The sum of two consecutive even numbers is 74. Find the numbers.

(HINT: Consecutive even numbers are represented as $x, x + 2$)

ACTIVITY

Combining like term Puzzle

Simplify each expression by combining like terms. Find the answer at the bottom of the page. Then write the letter on the appropriate line below to spell out a secret message. (Some letters may be used more than once!)

1 2 3 4 5 6 7 8 9

10 11 12 13 14 15 16 17

1. $17b + 5 + 3b$	2. $p + p + p + p$	3. $4m + 7 + 6p + 5m + 5$	4. $3(3m+4)$															
5. $19a + 2b + 11a - b$	6. $7m + 3 + 2m + 9$	7. $p(6+9)$	8. $2y+8y+4y$															
9. $12z + 5 + 3z$	10. $9 + 12 + 6p$	11. $2n + 9 - n$	12. $5g + 35$															
13. $5(g + 7)$	14. $12m + 14n - 7m + 3n + 5$	15. $12y + 2y$	16. $18(m + 1)$															
17. $5n + b - 4n + 3$																		
<table border="1"> <tbody> <tr> <td>S. $30a+b$</td> <td>N. $18m+18$</td> <td>Q. $a+4$</td> </tr> <tr> <td>U. $10x+8$</td> <td>L. $5g+35$</td> <td>J. $15p$</td> </tr> <tr> <td>T. $4p$</td> <td>I. $20b+5$</td> <td>O. $14y$</td> </tr> <tr> <td>B. $15z+5$</td> <td>W. $9m+6p+12$</td> <td>G. $11g+22$</td> </tr> <tr> <td>A. $9m+12$</td> <td>D. $5m+17n+5$</td> <td>E. $n+9$</td> </tr> </tbody> </table>				S. $30a+b$	N. $18m+18$	Q. $a+4$	U. $10x+8$	L. $5g+35$	J. $15p$	T. $4p$	I. $20b+5$	O. $14y$	B. $15z+5$	W. $9m+6p+12$	G. $11g+22$	A. $9m+12$	D. $5m+17n+5$	E. $n+9$
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A. $9m+12$	D. $5m+17n+5$	E. $n+9$																

PROCEDURE :

- Simplify each of the expression given in the boxes by adding or subtracting the like terms.
- Take the letter written in front of the correct answer at the bottom of the page and fill the corresponding blank space given at the top of the page to find out the secret sentence.

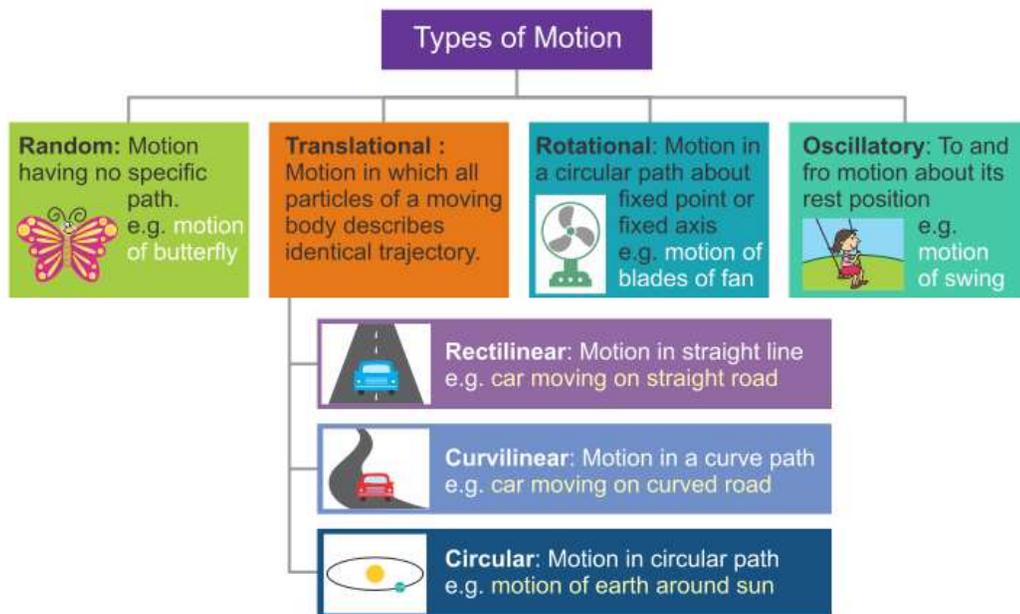
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Science (Physics)

Revision Notes on Motion and Time

What is Motion?

If an object keeps on changing its position with time, it is said to be moving or in **motion**. Motion can be of different types:



Slow and Fast Motion

If one object covers a particular distance in less time and another object covers the same distance in more time then the first object is said to be moving slowly while the second object is said to be moving faster.

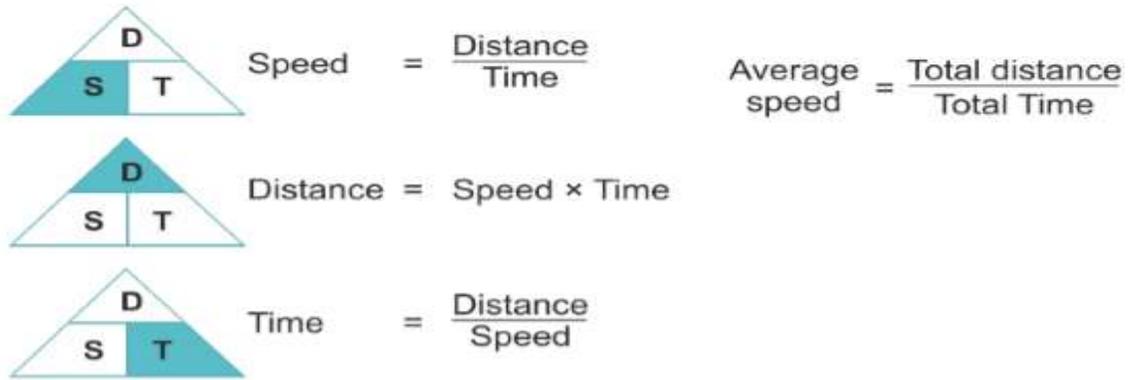
The Speed of an object

The distance travelled by an object in unit time is called its **Speed**.

Types of Speed:

- **Uniform Speed** - When the object travels a fixed distance same time gaps, it is said to have a uniform speed.
- **Non-uniform speed** - When an object covers different distances in different time gaps, it is said to have a non-uniform speed.
- **Average speed** - The total distance travelled by an object divided by the total time taken by the object is called its average speed

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**Figure 2: Finding Speed, Time and Distance
Units to Measure Time Speed**

Time	Second (s) Minutes (min) Hours (h)
Speed = Distance/time	Meter/Second (m/s) Meter/minute (m/min) Kilometer/hour (km/h)

To convert between m/s and km/h:

$$\frac{1 \text{ km}}{1 \text{ h}} = \frac{1000 \text{ m}}{1 \text{ h}} = \frac{1000 \text{ m}}{60 \text{ min}} = \frac{1000 \text{ m}}{3600 \text{ s}} = \frac{1}{3.6}$$

Divide by 3.6

$$\text{Km/h} \xrightarrow{\text{Divide by 3.6}} \text{m/s}$$

Multiply by 3.6

Figure 9: Conversion between km/hr and m/s

Speedometer - It is a device which is used in vehicles such as cars and trucks which measures the speed in kilometer per hour.

Odometer - It is a device which measures the distance travelled by a vehicle in meters or kilometers.

**Figure 10: Measure of Distance and Speed of a car
Measuring Time**



The dashboard of a car

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There are many events in nature that repeat after a time interval:

- Morning – The rising of the sun
- Day and Night – The time between the sunrise and sunset
- Month – The time between two new moons
- Year – The time the earth takes to complete its one revolution around the sun

Time measuring devices or clocks - **Clocks** use the concept of **periodic motion** to measure time. It means that it uses motion that repeats itself in equal amounts of time. There are different types of time measuring devices.

<p>Sundial – It uses the position of the sun to depict time</p>	
<p>Sand Clock (hourglass) – It uses sand to measure time</p>	
<p>Water Clock – It uses water to measure time</p>	
<p>Pendulum Clock – It uses a pendulum to measure time</p>	

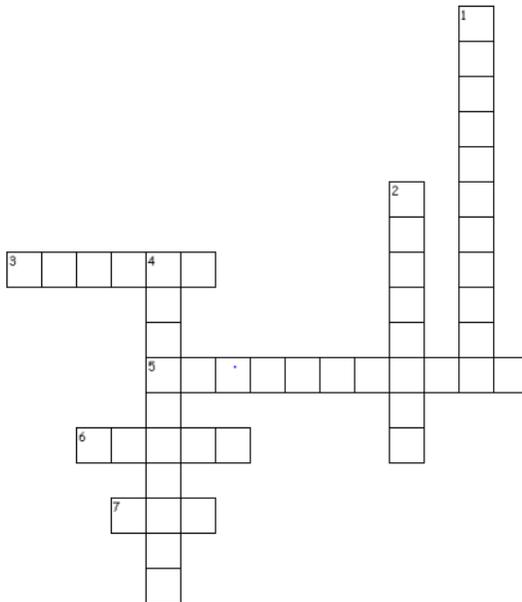
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Quartz Clocks – They have an electric circuit that works with the help of cells. They provide accurate time.



Practice Questions

I. Solve the crossword:



Across

3. Basic unit of time
5. The to and fro motion of a simple pendulum is called _____ motion
6. the distance per unit time
7. the metallic ball in the simple pendulum

Down

1. the instrument used in vehicles for measuring the speed
2. the instrument used in vehicles for measuring the distance
4. One billionth of a second



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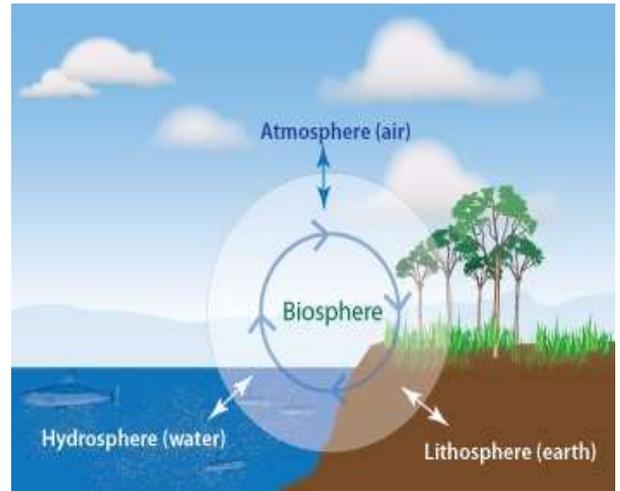
- II. Solve the word problems –
- Convert 54 km/hr into m/s.
 - A train is travelling at a speed of 100 km/hr. How long will it take to complete a journey of 500 km without stopping in between?
 - Ramesh takes 15 minutes to reach market from his house on this cycle. If the speed of his cycle is 4 m/s calculate the distance between his house and market?
- III. Classify the following as motion along a straight line, circular or oscillatory motion -
- Motion of our hands while running
 - Motion of a horse pulling a cart on a straight road.
 - Motion of a kid in a merry-go-round.
 - Motion of a child on a see-saw.
 - Motion of the hammer of an electric bell.
 - Motion of a train on a straight bridge

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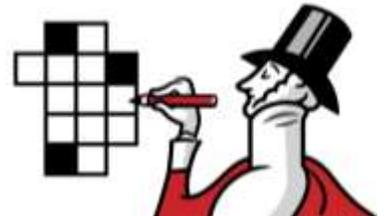
Social Science
ENVIRONMENT (GEOGRAPHY)

A) Read the passage given below carefully and answer the questions that follow:

Biosphere is a narrow contact zone of air, water and land, where living organisms exist. It makes the Earth a unique planet. For all practical purposes, the biosphere is considered as the fourth domain of the Earth which includes biotic as well as abiotic components of the environment. Plants, animals, humans & microorganisms are a part of this biosphere. An ecosystem is a community consisting of non-living and living components which are interdependent on each other.



- i) How is biosphere important for the sustenance of life?
- ii) Identify an ecosystem near your home. It may be a pond, a garden or a park. Draw different biotic & abiotic elements of any one of the ecosystems and show how these are interdependent on each other.



B) Food for Thought

Earth Day is celebrated on April 22nd every year with an objective to *inspire* awareness and *appreciation* for the Earth's environment.

Few months ago, a strategy was adopted in New Delhi to deal with air pollution, known as **Odd-Even** formula. Find out the following aspects of the same.

- i) What is the meaning of Odd-Even in this context?





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- ii) What are the benefits of such experiment?
- iii) What problems do people face because of such experiments?
- iv) Can we implement this strategy in our own city, Indore? Explain briefly.

C) Pen down your thoughts on **what an ideal environment should be like**.
Mention its five characteristics. You can also **draw and explore your creative and imaginative skills**.