

JANUARY 2023 EDITION

POPPLE

DIGITAL MAGAZINE

KNOW ABOUT
**INDIAN
PANGOLIN**

**71ST
CENTURY**

WORLD'S HOT TOPIC
COVID BF 0.7,
A NEW VARIANT

WHY WE ARE GOING
**BACK TO
MOON!**

**ELEMENTS
OF ART**



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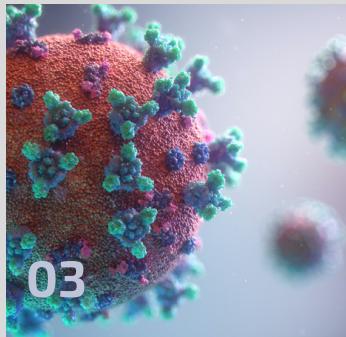
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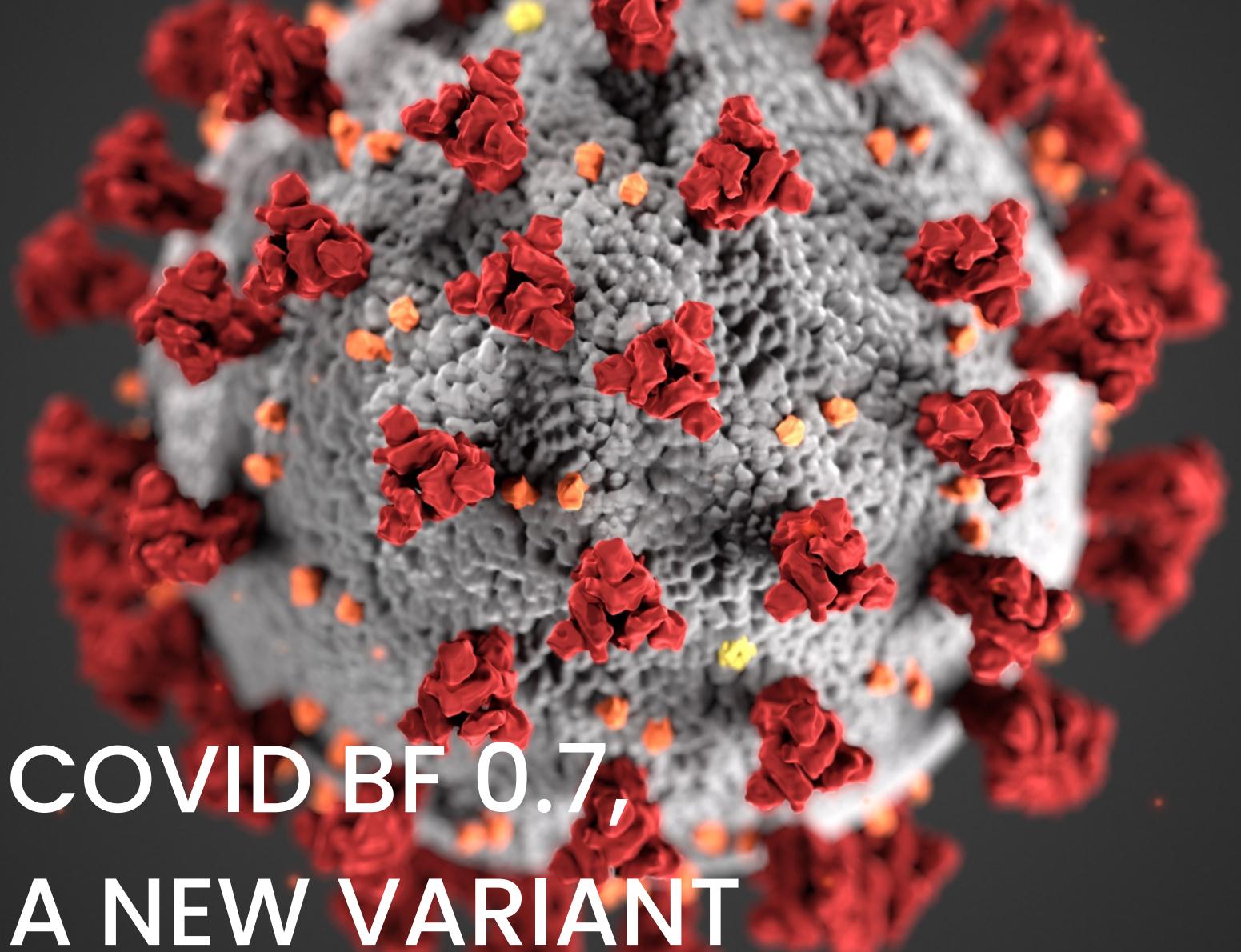
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COVID BF 0.7, A NEW VARIANT

BF 0.7 is the sub lineage of Omicron that spreads out now a days. This is the blooming age of Omicron BA 0.5. Symptoms are as similar as other omicron variants.

Omicron has mutated over 500 times in one-year. Strongest infecting ability of omicron BF 0.7 is the reason why the infection rate is high. One infected patient can infect up to 10 or more.

It is not only seen in China, it is already seen in many other countries like UK, US, Belgium,

Germany, Denmark and India is no exception!

There is a wide spread in China, probably their vaccines being not so efficient, can be pointed out as one of the reasons. And it's been alleged that in China elderly people are not vaccinated which claims to be the reason for the rapid sprout out of the infection. There is no reliable news from Chinese Government themselves.

In India, experts predict that there will be very less loss

since people are being vaccinated and they advise it's mandatory for elderly people to take booster dose. BF 0.7 will affect the elderly people with less immunity and people who have gone multiple surgeries, heart patients and cancer patients.

People coming from other countries are being tested by the government of India. Precautions like wearing mask, social distancing, sanitization have to be followed in order to avoid further spread.

-POOMPAVAI K





BACK TO MOON!

Yes, literally after 50 years, NASA is planning to land the humans in lunar surface. Artemis mission by NASA, is a human spaceflight program that aims to land the first woman and next man on the Moon by 2024, and establish a sustainable human presence on the Moon by 2030s. The main goal of this mission is to test the new technologies and systems so that they can establish a long presence of human on the Moon.



NASA launched nine human missions to Moon named Apollo in the period between 1968 to 1972 in which, 6 of them were successful to touch down and allowing the astronauts to walk on the Moon. Now NASA is planning a new mission to Moon named Artemis.

Artemis mission has a goal of not just getting back to Moon, but to achieve a long-term human presence on Moon and to prepare for more complex missions too. Humans are looking at Mars as a future, Artemis mission will provide a valuable experience for the Mars missions. Artemis mission will be a forerunner to all the future missions that are going to be carried out on Mars.

The Artemis program also aims to involve international and commercial partners in its lunar exploration efforts. NASA is working with a number of private companies to develop the technologies and capabilities needed to sustain human presence on the Moon.

For this mission, NASA has developed a Space Launch System (SLS) and a deep space human-rated spacecraft called Orion which is built with 3 parts namely: Crew module, Service module and a Launch abort system.

SLS will be helpful for launching the crew and heavy payloads of Artemis mission. Launch System, comprises of a cargo hold, an Exploration Upper Stage, a massive core stage and 2 extended solid rocket boosters. Altogether, this is the world's most powerful rocket, powerful than Saturn V

which was used in Apollo programs. SLS weights 6 million pounds in which 5.2 million pounds is just for fuel which gives powerful thrust to lift the crew.

Four RS-25 engines and 2 solid rocket boosters are used in SLS. Solid boosters will be released in two minutes and core stage is separated in the next eight minutes. The upper stage fires and places Orion into the parking orbit. After a check by Mission control, Orion leaves the Earth. Once the burn is completed, Orion coasts for several days towards the Moon. Pre-staging is done in Artemis, that is, everything needed for the mission is positioned in advance by commercial and international players like dedicated lunar station in orbit around the Moon, called Gateway.

Gateway is designed in such a way that it can be adjusted and can be expanded for new missions. When the Orion is docked with the Gateway, the crew can be transferred to the lunar lander.

Lunar lander is used to descend the orbit and land on Moon. Once the mission is completed the lunar lander is used to go back to the Gateway which is orbiting the Moon. Then, the Orion spacecraft is undocked from the Gateway and the crew can now fire their engine back to the Earth.

Approaching the Earth, service module is released and crew module enters the Earth at 25,000 miles per hour. Heat shield protects the crew from



IMAGE CREDITS NASA

the scorching 5000 degrees. After approaching 300 miles, parachutes are deployed and decelerates the module for splashdown.

Artemis mission is divided into 3 sub missions, in which, Artemis I mission is an uncrewed mission which orbited the Moon. Artemis I was successfully launched in November and splashed down in December. Artemis II will be a crewed mission which will orbit the Moon but not land on lunar surface and return to the Earth. Artemis III will be a crewed mission in which the first woman and a man will be landed on the lunar surface which will be launched by 2024. The Artemis mission will prove to be a new chapter in the human space exploration.

-MADHAVAN J



MAGE CREDITS BCCI

71st CENTURY

Retired from cricket, "the time is up," "the king's crown is dropping," and "the choker" were the names awarded by the people to Virat Kohli when he was not scoring his 71st century. The great people definitely had a slip in their lives. Their strength lies in how they overcome their bad memories and flop. If they had done it, then everyone knows why they are great. Virat struggled for a long time to overcome his flop.

43 ODI centuries, 27 Test centuries, and an average of around 52 in T20 will not be enough for the public to believe in him. Chiku scored his 70th century on November 23rd, 2019; on that day, he had no idea how long he would have waited for his 71st century and how much criticism he would face.

On January 30, 2020, an unknown visitor arrived, and the game has ended, its name is Covid-19. The international community was joining the fight. People were attempting to escape this situation. Fans were eagerly awaiting the game. After 330 days, 11-month international cricket was returning to India. Fans were hoping for a VK century, but it was a disappointment for everyone. The last match of the year for India, on December 17, 2020, marked the end of a dreadful year for everyone, and for Virat, he didn't score even single century that year. It was the first time in his international career after scoring his first century. Fans could not believe what was happening to their run machine.

A New Year means a new journey for everyone, but that year was a little different, even for athletes who must erase their pad and start from "point zero" for the year.

Everyone was wise to have a good new year, and fans were waiting for Chiku's century. According to VK, the previous year has been the worst of his career. But it had been a part of his regrets. After a disappointing T20 world cup,

Virat Kohli resigned from both his white ball and IPL captaincy. In 30 innings across all forms in 2021, Virat Kohli scored 964 runs at an average of 37.07. In terms of cricket, it's a good record, but for Virat it was a terrible year because his career stats screamed volumes about the man.

Another year has passed without a century. People have begun to believe that the Virat era came to an end. People believed that the Super V needed to be changed at the start of the year, at least in one format. They began to believe that Kohli needed to return to the first class and demonstrate his abilities, and that the IPL 2022 version of VK would prove them to be correct and in January 2022, Virat Kohli relinquished the test captaincy.

Everyone began to give him advice and had an opinion on his technique after his IPL. He had taken a month off before the Asia Cup to focus on his mental health, and while he didn't make any technical changes, he might never fully comprehend the cobwebs in his mind. The Asia Cup was also a disappointment to every Indian fan, but VK got some nice numbers in the few games. India had pulled out of the tournament following its group-stage defeat by Sri Lanka. Before returning home, India played a game against Afghanistan; no one had any interest in that game. Except for the fact that it was the game they were looking forward to, the hitman got some rest, and Super V began the innings as an opener, with everyone expecting him to



IMAGE CREDITS: BCCI

score another half-century. But that did not satisfy the public because Kohli had always set lofty standards for himself, but despite his 26 half-centuries in 83 innings across formats (that's one 50-plus score every 3.19 innings), it didn't satisfy the appetite of Indians, who were so used to turning on the TV remote and finding Kohli racing to another ton.

Every VK supporter was grateful to Ibrahim Zadran for dropping him at 40. He had no idea what might transpire. Virat pulled the ball to six in the second delivery of the 18th over to reach his 71st century. Every century had its own worth, but this one was incomparably valuable. The patience of millions of people who had faith and belief in VK was the worth of this century. It finally happened, after a long waiting of 1021 days, he scored his 71st century and the first in T20s.

Everyone was anticipating his aggressive celebration, but instead he smiled, just a simple smile that shows everything he had conquered and what he still faced during the previous three years. He merely gave the critics' words some zip and began to smash records after that; he was India's top individual run scorer in a single inning in T20s with 122 of just 61 balls. Virat's words on his century were,

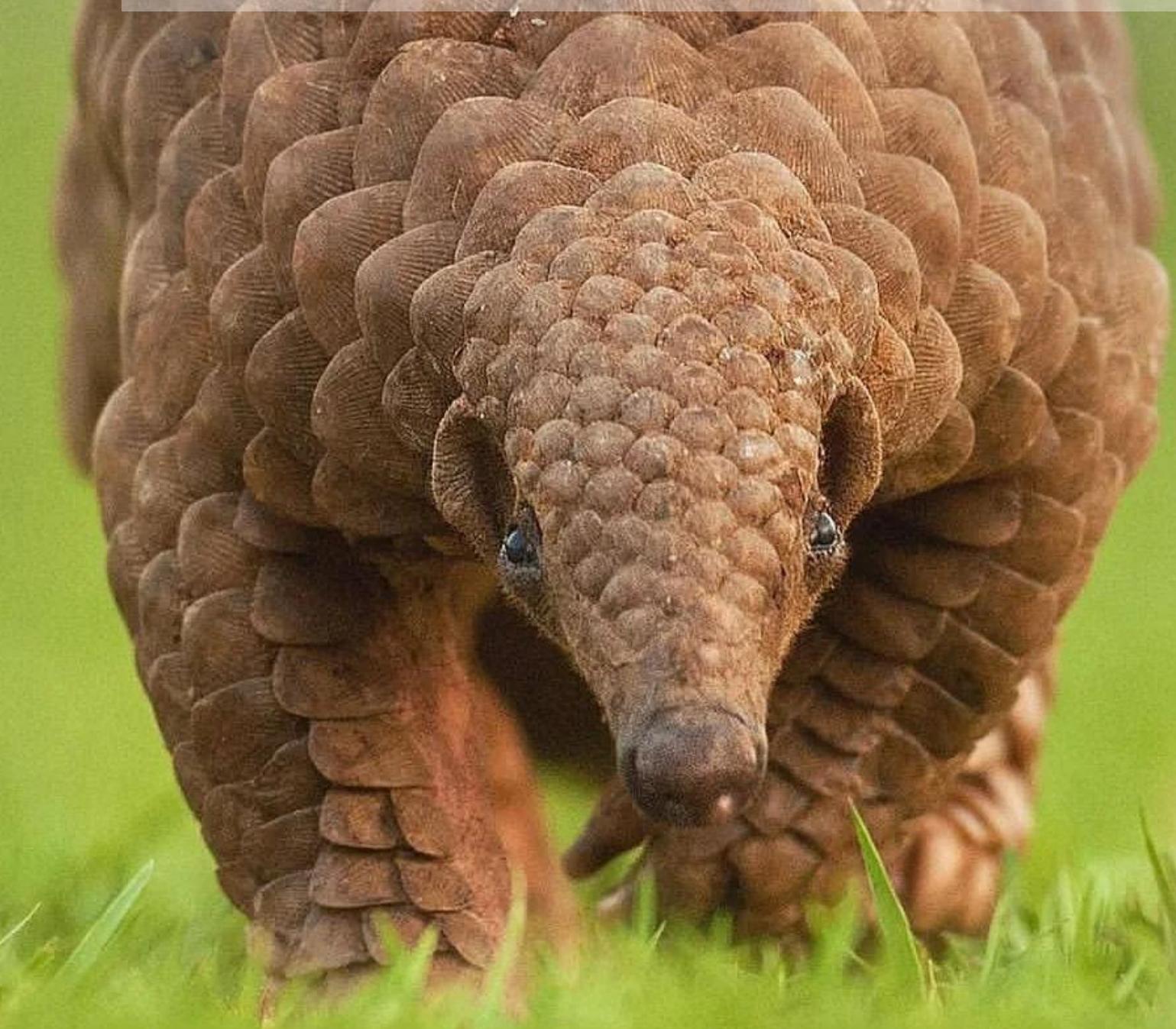
"Actually, I was shocked. This was the last format I thought of. It was the accumulation of a lot of things. The team has been open and helpful"

The run machine didn't stop; he just took a break. Haters always wanted him to stop, but there is no station close enough. Don't get into an argument whether Virat is a G.O.A.T or not. He is already a G.O.A.T!.

- VENKATARAMAN A

INDIAN PANGOLIN

Scientific name of Indian Pangolin is *Manis Crassicaudata*. Its population ranges across Southern Asia, mainly from the eastern portions of the Punjab, Sindhu regions of the Pakistan and through almost all of India. Indian Pangolins are well adapted to desert regions and it prefer barren, hilly areas. Overall, they prefer soil which is soft and semi-sandy. The total body length of fully grown Indian Pangolins ranges from 45 to 147cm and their tails can be 33 to 45cm long.



Adult Indian Pangolins weight from 8 to 17kg. There is limited information about the mating system of Indian Pangolins, but it is believed that there mating period is between July and October. Males have been observed to compete with other males over female pangolins. This mating period lasts from 3 to 5 days. During this time, males occupy the female's burrow which they are breeding. This is contrast to the normal solitary behaviour of pangolins. Their breeding type is monogamous.

The oldest pangolin lived to be over 19 years old. Indian pangolins are mostly nocturnal and majority of their activities occurs during night. During the day, they are mostly hided deep within their burrow or in a dark corner or a tree to rest.

While resting, they curl up into a ball with ventral sides facing down and their limbs tucked under their bodies. During the night, when Indian Pangolins are active, they spend their time for searching food and digging their burrows.

They use their forelimbs to dig out. They also climb up trees using their strong forelimbs to grip the tree and their tails for support when moving up and down. Pangolins produce large loud hissing noise.

Their populations continue to drop as they usually only bear one offspring per year and the destruction of their habitats is due to deforestation.

-FHAMITHA M



ELEMENTS OF ART

“

Art is never finished, only abandoned

-Leonardo Da Vinci A

What is art?

Art allows me to express my emotions. It creates a different view of the world. Art is a way of recognising oneself. It's not what you see, but what you make others see. Art is simple. Art is free.

Importance of Art:

Art forces humans to look beyond themselves. The arts can communicate information and shape our everyday lives. Art is the creative work of human beings. Art is the key. "Earth" without "ART" is just a futile. Art is not a thing; it is a way to live a beautiful life. Art is an experience. Personally, Life is incomplete without art, Damn useless!

The seven elements of art:

The seven elements of art are: line, shape, value, colour, texture, space, and form. The seven elements are also known as the principles of art.

LINE:

The fundamental element of art. "Line" is the foundation and arguably the most important element of ART. A line is just a mark drawn from point A to point B. A line creates the boundary of the ART. Lines can be straight, curved, thick, or thin. Different types of lines are used to make different shapes.

SHAPE:

Lines combine to form shapes. A shape is a two-dimensional object with length and width but no depth. The shape may be simple or complex. There are two types of shapes: geometric shapes and organic shapes.

Geometric shapes include circles, squares, and triangles. Organic shapes are those that appear in nature and are usually more abstract. Shapes create visual interest, balance, rhythm, and hierarchy in a painting. Everything you see is basically a composition of shapes.

COLOUR:

Colours are a big part of all the designs and one of the basic components of a painting. "Colours influence people's minds." Colours can set the mood and feel of a painting. All Colours have certain characteristics.

Hue: the colours themselves, such as red, blue, green, etc.

Value: how light or dark a colour is.

Chroma: the brightness or dullness of a colour, how saturated it is.

Temperature: Colours can be warm or cool.

VALUE:

Value is the degree of lightness or darkness in colours. The higher the value, the more light reflects off an object, and vice versa. Lighter values are referred to as tints. Darker values are referred to as "shades." A value scale is a strip of squares or blocks ranging from the darkest dark, gradually progressing to the lightest light. The lightest value is white, and the darkest value is black. Value is important because it helps to create a sense of depth and contrast in paintings.

TEXTURE:

An Important Aspect of Art. Texture is what we see when we look at an object; it includes things like smoothness or roughness on the surface of the object. Texture makes an object more three-dimensional and helps to convey a sense of realism. There are different ways of adding texture to a painting. In drawing, texture is created by adding parallel lines and 26 dots. In painting, texture can be implied by using a value and the brushstrokes to give a "3D" feeling to artwork.

FORM:

The way something is shaped or moulded is referred to as its form. Form is the shape, structure of an object a form is a three-dimensional object that has length and depth. The two main types of forms found in art are: Geometric form are shapes that can be divided into two or more equal parts by straight lines.

Geometric forms are most often found in architecture and Sculpture. Organic form is a natural shape that does not have a specific pattern or structure. They are free-flowing and have little or no pattern to them. These forms are usually found in nature and occur naturally. Many artists use form to create sense movement of the illusion of space.

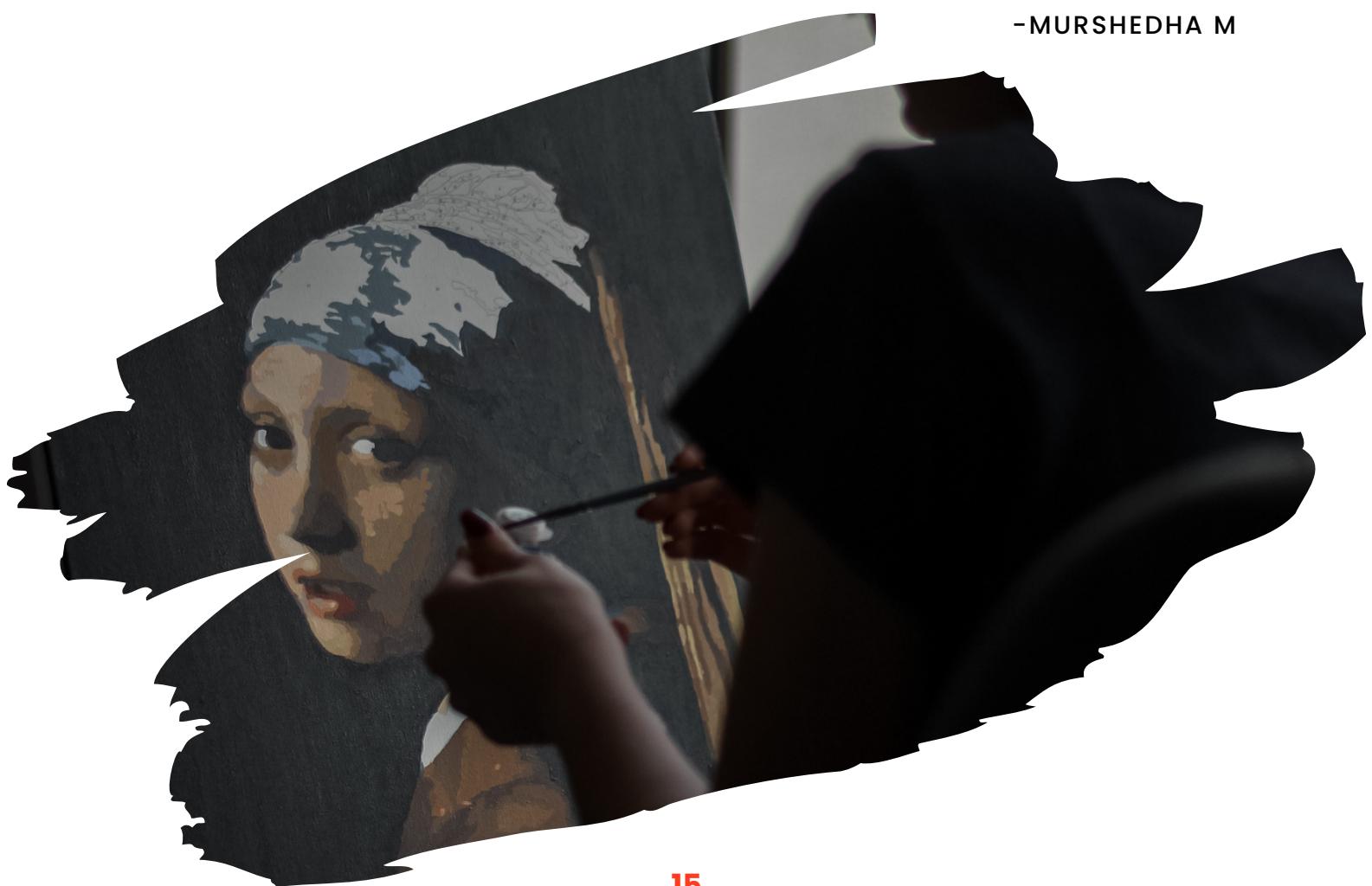
SPACE:

Space is the area or volume around and between things. Space can be empty or full. It can be defined as the distance between things. In painting, the use of space is important to show visual interest, department, and distance, as well as to create contrast between elements. Negative space is the area and volume between two objects, whereas positive space is the space between two objects. Positive space is the object itself. Negative space is used to create a mood or feeling in a painting. The elements of art are important because they help the artist create a piece that is both aesthetically pleasing and tells a story. They also allow the artist to convey their message in a way that is unique to them.

The type of arts:

Painting, Sculpture, Photography, Cubism, Architecture, impression, Pop art, Drawing, Surrealism, Expressionism, Abstract art, Print making, Conceptual art, Calligraphy, Romanticism, Baroque Realism, Modern art, Renaissance art, Collage, Digital art, Performance art, Art Nouveau, Abstract Expressionism.

-MURSHEDHA M



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SUDOKU

Let's complete the sudoku...

Answer will be posted in the FEB 2023 edition

-ABIRAMI A

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The one who use the opportunity to achieve is intelligent

The one who predict of getting opportunity to achieve is brilliant
but

The one who **CREATE** his opportunity to achieve is Clever

-PUGAZHARASAN S

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