



# THE HINDU ANALYSIS

**12th March 2024**

by saurabh  
pandey



**THE HINDU**



# PRELIMS TEST 24

Advanced current affairs

## SCHEDULED

## Today - 9PM



Link IN description



# Detailed Course on Current Affairs

MUST FOR  
PRELIMS  
2024

CLASS -2 TOPICS  
Covered

- Inflation reduction act
- Flue gas desulpharisation
- Red sand dunes
- cheetah population
- GIB
- VIJHIJM port
- parole furough
- BIMSTEC



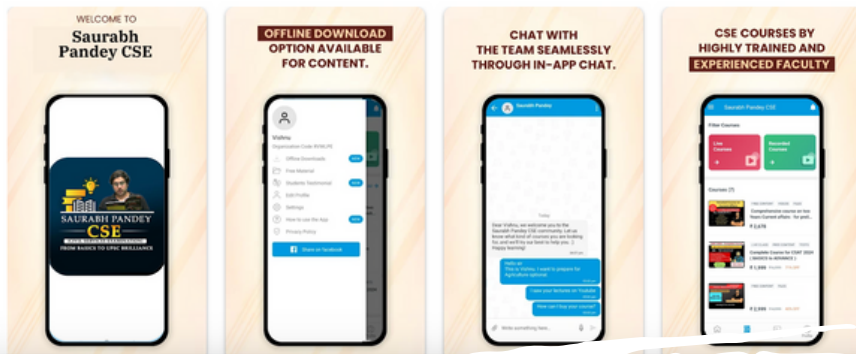
# Saurabh Pandey CSE

Saurabh Pandey CSE

4.8★ 73 reviews | 1K+ Downloads | Everyone

Share Add to wishlist

You don't have any devices



App support

**For any query msg-  
9057921649**

**Classes on laptop-**

**<https://web.saurabhpandeyupsc.com/login>**

# science

## The curious case of a man who received 217 COVID shots

On March 4, a study published in *The Lancet* reported the case of a 62-year-old German man who had received more than 200 COVID-19 shots over 29 months for "private reasons". Researchers' investigations with him revealed much about immune function and the effects of over-vaccination

Puneet Kumar  
Vipin M. Vashishtha

**T**he COVID-19 pandemic has been a roller-coaster for vaccinology – from a rare show of truly global collaboration between governments, multilateral agencies, the scientific community, and industry to huge public demand for rapid vaccine development against the new virus that had brought the world to its knees to sudden concerns of "too rapid" development when many vaccines could be developed in record time. Some wanted "booster doses", and others worried about "too many doses".

So when the U.S. Food and Drug Administration announced in September 2021 that the third doses of the Pfizer and the Moderna COVID-19 vaccines would soon be available to Americans who were first in line to receive their initial two-shot vaccines, some experts questioned the need for it for most people – except the elderly or immunocompromised – and called it "over-vaccination" owing to a lack of data.

Later, the third dose became the norm worldwide, although India still called it a "precaution dose" and continues to do so, while many Western countries recommend repeated boosters, some with updated vaccines against the current Omicron variant. The debate over the best vaccination strategy continues.

### The man who received 217 shots

In January 2022, an octogenarian from Madhepura district in Bihar claimed to have received more than 11 doses of the COVID-19 vaccine because it helped him with joint and back pain that had eluded other forms of treatment. At the time, some scientists worried about "over-vaccination". Since the subsequent doses beyond the first two may not have been reported, it faded from the headlines.

But on March 4, a study published in *The Lancet* reported a shocking case of "over-vaccination" by a 62-year-old German man who received over 217 COVID-19 shots over 29 months for "private reasons".

Researchers found out about his case from media reports and conducted a detailed study to investigate the immunological and other effects of over-vaccination on his body. Their investigation revealed much about immune function and the effects of over-vaccination. They compared their findings to a reference cohort of 29 healthy persons who received 'only' three COVID-19 vaccine doses.

Between November 2019 and October 2023, the man underwent routine examinations for various reasons, which indicated no vaccination-related anomalies on 62 parameters. No vaccine dose caused issues for the German individual. He never got a minor SARS-CoV2 infection either, according to rapid antigen/RT-PCR and nucleocapsid serology assays.

The antibody titres were much greater than the control group vaccinees, with serum neutralisation capability 5.4-fold and 11.5-fold higher for wild-type and Omicron B.1.1.529 spike proteins, respectively.

They also reported that he exhibited



The vaccines briefly expose the immune system to antigens. Each shot injects a small quantity of antigen, triggering a momentary immunological response. MUFID MAJUNUN/UNSPASH

antibodies that were not found in the control group and that some antibodies were also detected in his saliva. Advanced "quality" tests of antibodies showed no significant difference from the control group. Strong "over-vaccination" did not increase or impair antibody quality either.

Finally, the researchers evaluated individual immune cells to discern the "exhaustion" of immune cells from repeated vaccination – and found none. Throughout the study, more antibody titres showed the individual's immune system's ability to respond to the antigen despite hyper-stimulation.

In sum, even after over-vaccination, the COVID-19 vaccinations were well-tolerated and effective.

### Are too many doses bad for you?

The investigations did not harm the person, and raised many questions: Are too many random vaccine doses at random intervals safe for anyone? Can a single case study generalise safety? Do two to three years suffice to assess vaccine safety? How might such high vaccine doses affect an individual's immune system?

Many experts have discussed 'immune tolerance' and 'immune exhaustion' – especially of the T cells. Long COVID pathogenesis, when the SARS-CoV-2 virus persists in the body for a long time, has been carefully investigated in relation to this issue. Scientists have found no evidence that COVID-19 vaccinations do this. The vaccines merely briefly expose the immune system to antigens. Each shot injects a small quantity of antigen, triggering a momentary immunological response.

However, naturally sick people produce viruses and antibodies throughout the body for days or weeks. The human common-cold coronavirus and rhinoviruses infect people multiple times every year, often at short intervals, without harming their immune systems. Our immune system responds to



An octogenarian from Madhepura district in Bihar claimed to have received more than 11 doses of the COVID-19 vaccine because it helped him with joint and back pain that had eluded other forms of treatment

environmental exposure on an hourly basis without getting tired. The recent vaccines are more sophisticated. They use only a portion of an organism or a few antigens, unlike smallpox and whole-cell pertussis vaccines, which include thousands.

In the new study, immunological profiling indicated repeated vaccinations or infections stimulated the immune system, making it more responsive. Interestingly, the immune system also developed faster, stronger, and broader, protecting against more new variants.

### A probable downside

Cancer and HIV can cause immune-fatigue due to chronic foreign-object exposure. So the immune system might become 'exhausted' and stop responding after repeated encounters. Thankfully, COVID-19 has not shown this yet. Recent research has revealed that repeated vaccines and spontaneous infections in fact boost COVID-19 immunity.

Despite these promising results, over-vaccination should be avoided. The COVID-19 vaccines have been associated with autoimmune diseases like immune thrombotic thrombocytopenia, autoimmune liver disorders, Guillain-Barré syndrome, IgA nephropathy, rheumatoid arthritis, and systemic lupus erythematosus.

Molecular mimicry, autoantibody synthesis, and vaccine adjuvants appear to contribute significantly to these disorders. The relationship between a

COVID-19 shot and these conditions' symptoms is unclear. This said, overloading the immune system rarely causes harm. Hypervaccination may rarely cause an 'Arthus reaction', a condition characterised by localised acute small-vessel inflammation and possibly entire limb edema. Repeated tetanus and diphtheria vaccination injections have been shown to have this reaction.

As we know, there are two broad types of immunity: innate and adaptive. When innate immunity is permanently stimulated, and the intensity of the reactions is stronger, these mechanisms may be directed against the host and subsequently stimulate acquired immunity. The cytokines, oxidative stress, and high nitric oxide production accompany this manifestation.

Other issues pertain to the principles of immunisation. In this instance, an interval between doses ranged from two days to two months. Most vaccines, including the mRNA vaccines, work best when there is a defined minimum interval between the two doses against one particular disease. A shorter interval usually elicits a suboptimal immune response than adequately spaced doses.

One must stick to the laws of science and, in this case, the principles of vaccination. We must endorse the caution the authors advised to avoid attempting such over-vaccination without evidence on a sufficient number of subjects. In addition, the study is a good illustration of how we can seize on the opportunities to advance science for the benefit of all. Conversely, the results will also re-educate the vaccine-hesitant community about the safety of vaccines.

(Dr. Puneet Kumar is a clinician at Child Clinic, New Delhi, with a special interest in infectious diseases and vaccination. Dr. Vipin M. Vashishtha is past convener, IAP Committee on Immunisation, and director of pediatrician, Mangla Hospital Research Center, Bijnor.)





# Types of vaccines

## Live-attenuated vaccines

- Live-attenuated vaccines contain live pathogens from either a bacteria or a virus that have been "attenuated," or weakened.
- According to Dr. Scully, live-attenuated vaccines are produced by selecting strains of a bacteria or virus that still produce a robust enough immune response but that does not cause disease.

- 

## Inactivated vaccines

- Inactivated vaccines take a live pathogen and inactivate or kill it.
- When the vaccine is then introduced to a human through a shot, for example, the inactivated pathogen is strong enough to create an immune response, however, is incapable of causing disease.
- Multiple doses are often needed in order to build up immunity and offer full protection.

Examples: Polio vaccine, influenza vaccine

The hindu analysis by saurabh  
pandey sir





# Subunit vaccines

Subunit vaccines are made from a piece of a pathogen, not the whole organism, so they do not contain any live pathogens. Some important subunit vaccines are polysaccharide vaccines, conjugate vaccines, and protein-based vaccines.

- Polysaccharide vaccines target an immune response to pathogenic bacteria that are encased in a layer of sugar, Dr. Scully explains This means they help you make protective responses against the surface of the bacteria, allowing your body to kill the bacteria. a subheading
- Conjugate vaccines are the same in that they have a polysaccharide component, but that sugar is stuck to a protein so your immune system will respond to the sugar on the bacteria better

The hindu analysis by saurabh  
pandey sir





- **Protein-based vaccines allow you to make a protective response against a protein on the surface of a virus, against a protein on the surface of a bacteria, or against a secreted toxin.**
- **Conjugate vaccines are the same in that they have a polysaccharide component, but that sugar is stuck to a protein so your immune system will respond to the sugar on the bacteria better**
- **Subunit vaccines can be made one of two ways: from the original pathogen or recombinantly. Recombinant vaccines use another organism to make the vaccine antigen.**
- 

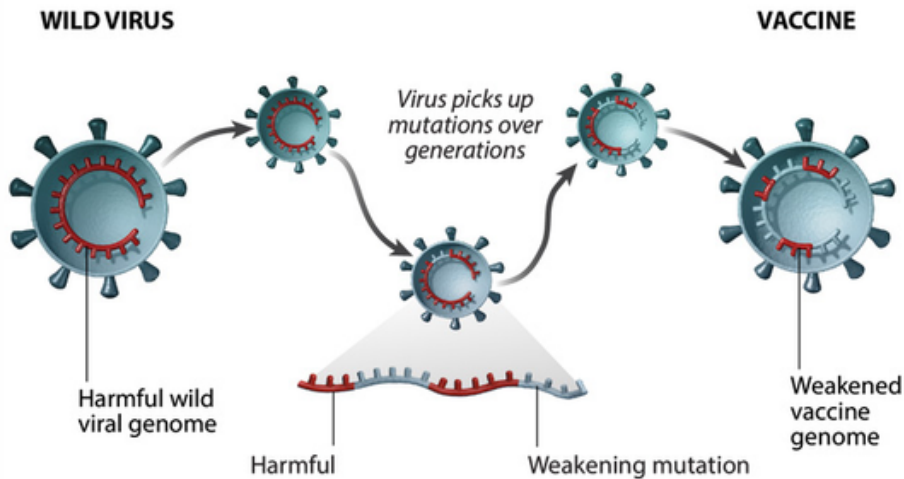
**The hindu analysis by saurabh  
pandey sir**





### What are Live, Attenuated Vaccines?

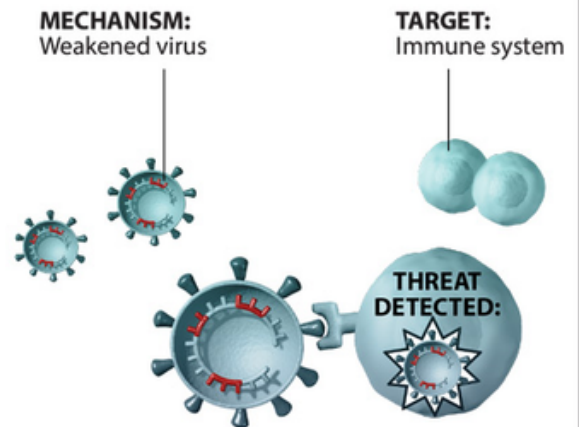
Live vaccines are "wild" viruses or bacteria that have been weakened.\* In the lab, generally the virus is passed through many generations of cells to pick up genetic mutations which weaken it - so much it won't cause disease in your body.



\*Did You Know?: "Attenuated" means weakened.

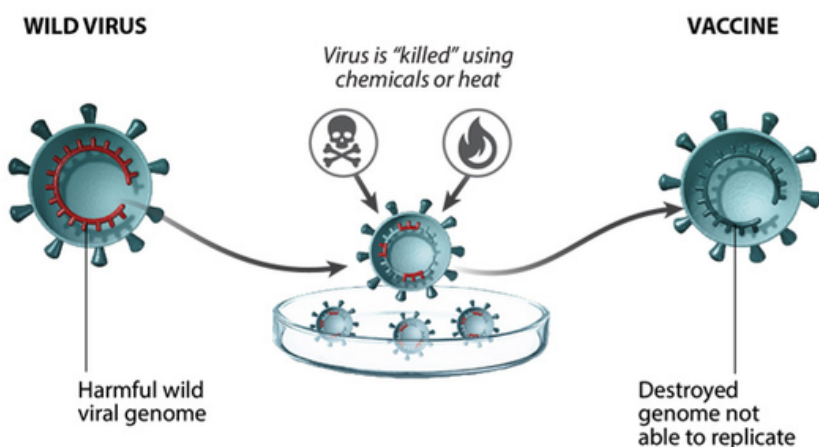
### Vaccine Target

Live, attenuated vaccines target your body's immune system directly. They are strong enough to trigger the immune response, but too weak to cause disease.



### What are Inactivated Vaccines?

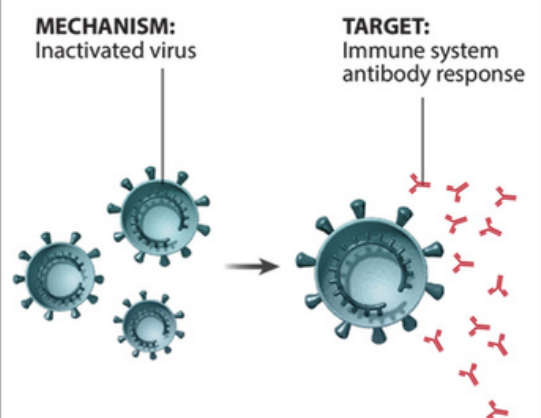
Live vaccines are "wild" viruses or bacteria that have been inactivated.\* In the lab, a wild virus is "killed" with heat or chemicals so it cannot replicate or cause disease in your body, and is safe for immunodeficient people.



\*Did You Know?: "Inactivated" means the virus cannot replicate or cause harm.

### Vaccine Target

Inactivated vaccines target your body's antibody production. This is weaker than natural infection or live vaccines, so inactivated vaccines often require multiple doses.

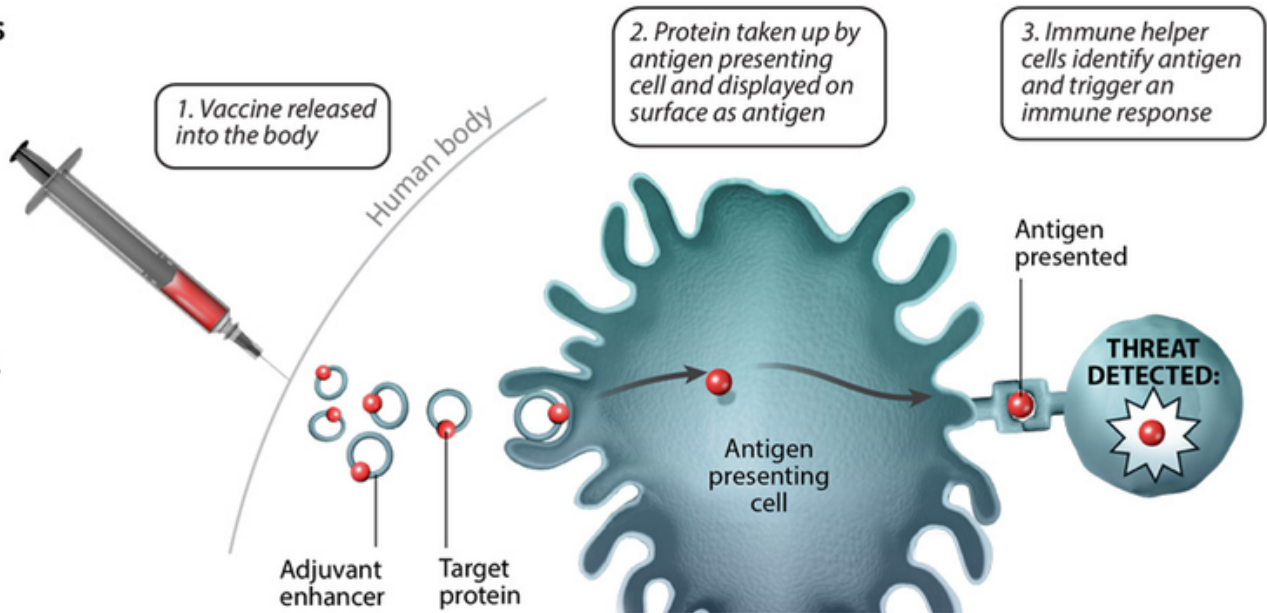


## What are Subunit (recombinant, polysaccharide, and conjugate) vaccines?

Subunit vaccines use a portion of a bacteria or virus to cause an immune response independent of its virus or bacteria of origin. Elements of subunit vaccines can be proteins, polysaccharide chains, or a combination of these.

### PROTEIN VACCINES

Viral proteins are isolated in a lab, mixed with an adjuvant immune-system stimulator, and injected into the body to cause an immune response without the virus that makes you sick.

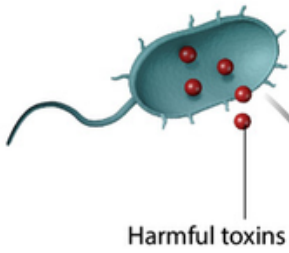


The hindu analysis by saurabh  
pandey sir

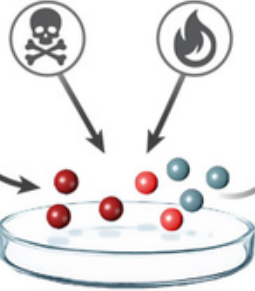
### What are Toxoid Vaccines?

Toxoid\* vaccines neutralize the toxic activity created by bacteria, instead of the harmful bacteria itself, neutralizing activity which normally makes you sick.

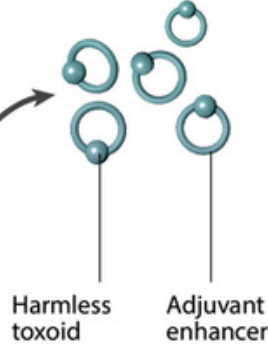
#### WILD BACTERIA PRODUCING TOXINS



Toxins are "killed" using chemicals or heat



#### VACCINE



\*Did You Know?: A toxoid is an inactivated, harmless form of a toxin.

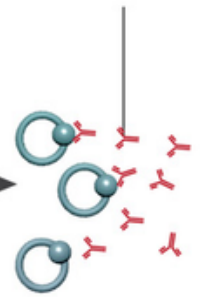
### Vaccine Target

The vaccine targets toxic activity, creating an antibody response to that toxin.

#### MECHANISM: Inactivated toxins

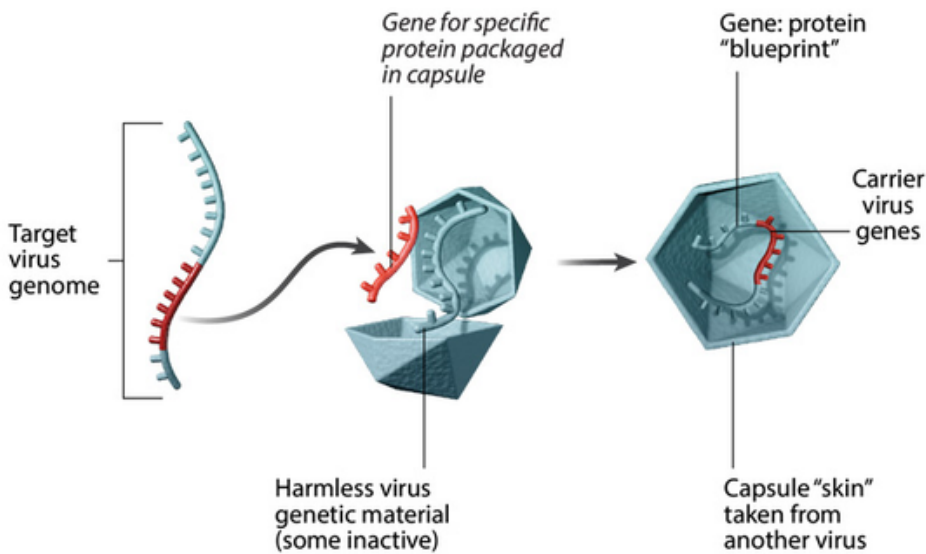


#### TARGET: Immune system antibody response



### What is a Viral Vector Vaccine?

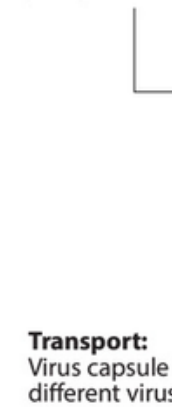
Made of a small section of a virus' genetic material - the instructions or 'blueprint' for a specific protein. The viral capsule or shell from another virus carries the gene safely to your cells.



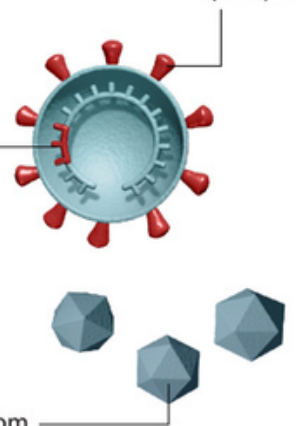
### Vaccine Target

The AstraZeneca and Johnson & Johnson COVID viral vector vaccines carry genetic code for the spike protein, and build immunity against invaders carrying it on their surface.

#### MECHANISM: Genetic "blueprint" for spike protein

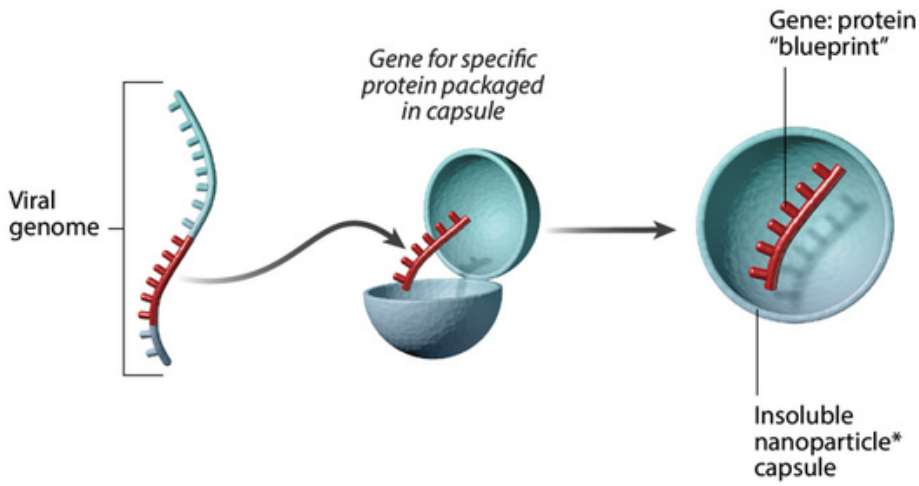


#### TARGET: Spike protein



### What is the Messenger RNA (mRNA) vaccine?

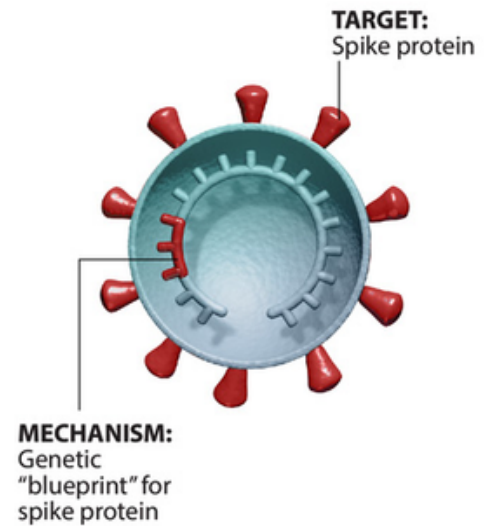
Made of a small section of a virus' genetic material - the instructions or 'blueprint' for a specific protein. A insoluble nanoparticle\* capsule carries the gene safely to your cells.



\*Did You Know?: "Nano" means small.

### Vaccine Target

Pfizer's mRNA COVID vaccine carries the genetic blueprint for the spike protein. Your body will make this protein and build immunity against any invaders carrying it on their surface.





# Latest research on covid Vaccine

- Despite these promising results, over-vaccination should be avoided.
- The COVID-19 vaccines have been associated with autoimmune diseases like immune thrombotic thrombocytopenia, autoimmune liver disorders, Guillain-Barré syndrome, IgA nephropathy, rheumatoid arthritis, and systemic lupus erythematosus.
- Molecular mimicry, autoantibody synthesis, and vaccine adjuvants appear to contribute significantly to these disorders.
- overloading the immune system rarely causes harm.
- Hypervaccination may rarely cause an ‘Arthus reaction’, a condition characterised by localised acute small-vessel inflammation and possibly entire limb edema.

The hindu analysis by saurabh  
pandey sir



# spotted by James Webb Telescope

## Reuters

The James Webb Space Telescope since becoming operational in 2022 has uncovered numerous surprises about what things were like in the universe's early stages. We now can add one more: observations of a galaxy that was already 'dead; when the universe was only 5% of its current age.

Scientists said on March 6 Webb had spotted a galaxy where star formation had already ceased by roughly 13.1 billion years ago, 700 million years after the Big Bang event that gave rise to the universe. Many dead galaxies have been detected over the years, but this is the earliest by about 500 million years.

"The galaxy seemed to have lived fast and intensely, and then stopped forming stars very rapidly," said astrophysicist Tobias Looser of the Kavli Institute for Cosmology at the University of Cambridge, lead author of the study published in the journal *Nature*.

"In the first few hundred million years of its history, the universe was violent and

**'Once star formation ends, existing stars die and are not replaced. This happens in a hierarchical fashion, by order of stellar weight, because the most massive stars are the hottest and shine the brightest, and as a result have the shortest lives'**

active, with plenty of gas around to fuel star formation in galaxies. That makes this discovery particularly puzzling and interesting," Dr. Looser added.

This galaxy is relatively small, with perhaps 100 million to one billion stars.

After a galaxy stops forming new stars, it becomes a bit like a stellar graveyard.

"Once star formation ends, existing





# James Webb telescope on Galaxy

- After a galaxy stops forming new stars, it becomes a bit like a stellar graveyard. “Once star formation ends, existing stars die and are not replaced.
- This happens in a hierarchical fashion, by order of stellar weight, because the most massive stars are the hottest and shine the brightest, and as a result have the shortest lives,”
- As the hottest stars die, the galaxy colour changes from blue – the colour of hot stars – to yellow to red – the colour of the least massive stars,” .
- “Stars about the mass of the sun live about 10 billion years. If this galaxy stopped forming stars at the time we observed it, there would be no sun-like stars left in it today.”
- The researchers determined this galaxy experienced a burst of star formation spanning 30 to 90 million years, then it suddenly stopped.

The hindu analysis by saurabh  
pandey sir



# JAMES WEBB SPACE TELESCOPE ENGLISH

Will be the premier space observatory for astronomers worldwide, extending the tantalizing discoveries of the Hubble Space Telescope.

An international collaboration among NASA, the European Space Agency, and the Canadian Space Agency.

The largest telescope ever placed in space; 100 times more powerful than Hubble.

So big it has to fold origami-style to fit in the rocket and will unfold like a "Transformer" in space.

Has a 5-layer sunshield that protects the telescope from the infrared radiation of the Sun, Earth, and Moon; like having sun protection of SPF 1 million.

With unprecedented infrared sensitivity, it will peer back in time over 13.5 billion years to see the first galaxies born after the Big Bang.

Will orbit the Sun 1.5 million kilometers or 1 million miles from the Earth. (Hubble orbits 560 kilometers above the Earth.)

[www.nasa.gov](http://www.nasa.gov)

**The hindu analysis by saurabh  
pandey sir**



**Proposed  
Launch Date:**

Webb will be  
launched in 2021

**Launch  
Vehicle:**

Ariane 5 ECA

**Mission  
Duration:**

5 - 10 years

**Diameter  
of primary  
Mirror:**

6.5 m (21.3 ft)  
approximately

**Primary  
mirror material:**

beryllium coated  
with gold

# JAMES WEBB TELESCOPE

A window into cosmos

**Focal  
length:**

131.4 meters

**Optical  
resolution:**

~0.1  
arc-seconds

**Orbit:**

1.5 million  
km from Earth

# Polity - Judges in politics



## Time to prohibit judges from joining politics

**J**ustice Abhijit Gangopadhyay recently resigned as a judge of the Calcutta High Court and joined the Bharatiya Janata Party (BJP). He said that he was approached by the BJP, and he also approached the BJP, during his tenure as judge. He declared that henceforth, he will be a "party soldier".

While he was judge, Mr. Gangopadhyay was often in the news for the wrong reasons. He allegedly gave an interview to a TV channel criticising the West Bengal government and speaking about the school job-for-bribe case. He created controversy by defying an order of a division bench. Sometimes he had run-ins with lawyers and even fellow judges. While dealing with one of the cases pertaining to Mr. Gangopadhyay's conduct, a bench of Chief Justice of India D.Y. Chandrachud and Justice P.S. Narasimha rightly said that judges have no business giving TV interviews on pending matters. The Chief Minister criticised Mr. Gangopadhyay after his resignation saying his judgments will always remain questionable.

Former Union Minister Arun Jaitley had once advocated a cooling off period for judges saying "pre-retirement judgments are influenced by a desire for a post-retirement job". When confronted with this suggestion, Mr. Gangopadhyay retorted that there is no rule to this effect. He added that he "never gave any political judgment which was politically biased".

### No legal bar

A member of the Constituent Assembly, K.T. Shah, had suggested that judges of constitutional courts should be legally barred from occupying executive posts. But the Constituent Assembly did not find favour with this. Implementing external rules to control the judicial behaviour of judges would be antithetical to the idea of judicial independence. This is why



**Kaleeswaram Raj**

is a lawyer at the Supreme Court of India

The act of judges of constitutional courts taking the political plunge even after they resign should be interpreted as a breach of the oath

India has not legislated over the judicial conduct of judges of constitutional courts.

Acceptance of judgeship is often an act of sacrifice for lawyers as it involves loss of freedom. Restraint becomes the norm, which also reduces the space for personal aspirations. Yet, a judge of the constitutional court gets powers and privileges which others do not enjoy. According to Article 217 read with Article 124(4) of the Constitution, the only way to remove a judge is the almost unworkable method of impeachment by Parliament. Article 215 declares the High Court to be a court of record with contempt power which the judges could invoke. The jurist Alan Dershowitz was right when he said that "judges are the weakest link in our system of justice, and they are also the most protected".

### Judicial conduct

Paragraph VIII of the Third Schedule of the Constitution demands a judge-designate to swear inter alia that he will perform his duties without fear or favour, affection or ill-will. The Bangalore Principles of Judicial Conduct (2002) gained international acceptance as indicated by the Judicial Integrity Group. The declaration enlists certain judicial values including independence, impartiality, integrity, propriety, equality, competence and diligence. It emphasises the need to eradicate bias or prejudice in the decision-making process. It asks judges to ensure that their conduct "both in and out of (the) court maintains and enhances the confidence of the public, the legal profession, and litigants in the impartiality of the judge and of the judiciary". Clause 2.4 of the declaration is against the judge making comments "that might reasonably be expected to affect the outcome of (a case)." It says that the "judge shall disqualify himself or herself from participating in any proceedings in which the judge is unable to

decide the matter impartially".

The Code also says, "A judge shall conduct himself or herself in a way that is consistent with the dignity of the judicial office".

The U.S judge, Simon Rifkind, remarked that the courtroom, sooner or later, becomes the image of the judge and that it will rise or fall to the level of the presiding judge. The Supreme Court in *C. Ravichandran Iyer v. Justice A.M. Bhattacharjee* (1995) said, "To keep the stream of justice clean and pure, the Judge must be endowed with sterling character, impeccable integrity and upright behaviour". In *All India Judges' Association v. Union of India* (1991), the court spoke of "society's expectation from judicial officers".

There have been similar instances in the past. In 1967, Chief Justice Koka Subba Rao resigned to contest the presidential elections, and in 1983, the Supreme Court judge Baharul Islam resigned to get elected as a member of the Rajya Sabha. But past aberrations do not justify present wrongs. They are no longer good precedents or practices given the globally accepted principles of the Bangalore Declaration, which were made later.

### An opportunity

The present episode, therefore, gives an opportunity to the Chief Justice of India and the Supreme Court to investigate the matter more seriously and evolve methods to avert such judicial aberrations. It could lead to one of the most awaited steps towards reforming the judiciary. The top court must expressly prohibit judges of constitutional courts from taking the political plunge even after they resign. Such acts should be interpreted as a breach of the oath read in the light of Indian precedents and the accepted norms on judicial conduct. There is a need for a judge-made law on the topic since Parliament will hardly act on this issue.





# SHOULD JUDGE JOIN POLITICS

Saurabhpandeyupsc.com



## WHY IN NEWS



Justice Abhijit Gangopadhyay recently resigned as a judge of the Calcutta High Court and joined the Bharatiya Janata Party (BJP).

A member of the Constituent Assembly, K.T. Shah, had suggested that judges of constitutional courts should be legally barred from occupying executive posts

Acceptance of judgeship is often an act of sacrifice for lawyers as it involves loss of freedom. Restraint becomes the norm, which also reduces the space for personal aspirations.

a judge of the constitutional court gets powers and privileges which others do not enjoy. According to Article 217 read with Article 124(4) of the Constitution, the only way to remove a judge is the almost unworkable method of impeachment by Parliament

Article 215 declares the High Court to be a court of record with contempt power which the judges could invoke

DOWNLOAD SAURABH PANDEY CSE APP



# SHOULD JUDGE JOIN POLITICS-P2

Saurabhpandeyupsc.com



The Bangalore Principles of Judicial Conduct (2002) gained international acceptance as indicated by the Judicial Integrity Group.



Paragraph VIII of the Third Schedule of the Constitution demands a judge-designate to swear inter alia that he will perform his duties without fear or favour, affection or ill-will.

The declaration enlists certain judicial values including independence, impartiality, integrity, propriety, equality, competence and diligence



It emphasises the need to eradicate bias or prejudice in the decision-making process. It asks judges to ensure that their conduct “both in and out of (the) court maintains and enhances the confidence of the public, the legal profession, and litigants in the impartiality of the judge and of the judiciary”.



The Code also says, “A judge shall conduct himself or herself in a way that is consistent with the dignity of the judicial office”



The top court must expressly prohibit judges of constitutional courts from taking the political plunge even after they resign. Such acts should be interpreted as a breach of the oath read in the light of Indian precedents and the accepted norms on judicial conduct.

DOWNLOAD SAURABH PANDEY CSE APP

# CULTURE - PERANG Api

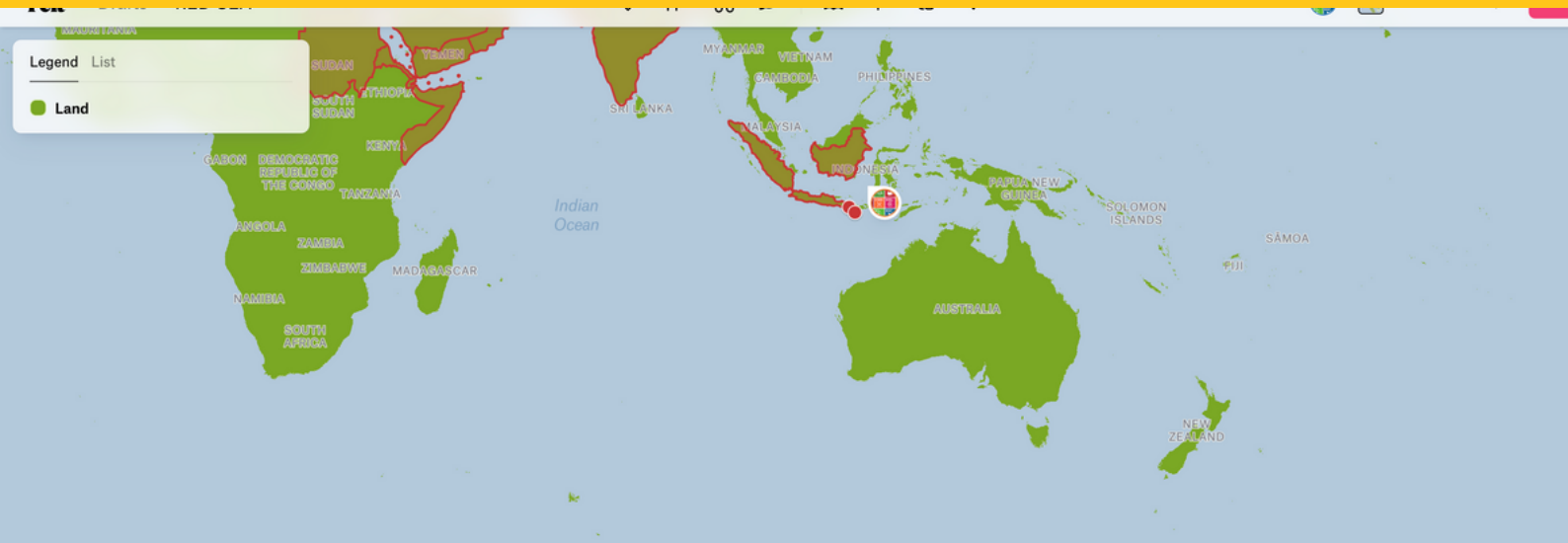
*'Playing with fire'*



Hindu worshippers take part in 'Perang Api', a war of fire tradition believed to cleanse the evil elements and keep away misfortune, ahead of Nyepi Day, which marks the Balinese Hindu New Year, at Mataram in Indonesia on Sunday. REUTERS



**The hindu analysis by saurabh  
pandey sir**



- **Perang api is one tradition few Balinese celebrate, and fewer outsiders know about. While the practices associated with the Hindu New Year's Eve are well documented – a day of enforced silence, fasting and meditation – this little-known ritual takes place at 6pm in a handful of neighborhoods in central Bali on pengrupukan, the day preceding Nyepi**

**The hindu analysis by saurabh  
pandey sir**



# oscar awards 2024

**Best picture**

**Oppenheimer**

**Best actor in a leading role**

**Cillian Murphy, Oppenheimer**

**Best actress in a leading  
role**

**Emma Stone, Poor Things**

**Best director**

**Christopher Nolan, Oppenheimer**



**Best supporting actor**

**Robert Downey Jr, Oppenheimer**

**Best supporting actress**

**Da'Vine Joy Randolph, The  
Holdovers**

**Best adapted screenplay**

**American Fiction**

**Best original screenplay**

**Anatomy of a Fall**

**Best animated featured film**

**The Boy and the Heron**



# Detailed Course on Current Affairs

MUST FOR  
PRELIMS  
2024

CLASS -2 TOPICS

Covered

- Inflation reduction act
- Flue gas desulpharisation
- Red sand dunes
- cheetah population
- GIB
- VIJHIJM port
- parole furough
- BIMSTEC



visit -[saurabhpandeyupsc.com](https://saurabhpandeyupsc.com)

For any query msg- 9057921649

mail-

[saurabhpandey456321@gmail.com](mailto:saurabhpandey456321@gmail.com)

# International Relations

LAUNCHED

Target Prelims 2024

Basics and current affairs

International  
Relations

BY Saurabh pandey sir

LINK IN DESCRIPTION

# Agriculture for GS

LAUNCHED

Target Prelims 2024

Basics and current affairs

Agriculture for  
General studies

BY Saurabh pandey sir



## Basic and advance Topics

Launched

Target Prelims 2024

Course on Advance  
Topics of Science &  
technology

Topics from last 2 yrs  
Special focus on  
newspapers especially  
the hindu



BY Saurabh pandey sir



## International Relations

LAUNCHED

Target Prelims 2024

Basics and current affairs

International  
Relations

BY Saurabh pandey sir



**Link in description**

# How to watch classes ??

1- Download Saurabh  
pandey cse app

2- visit

[web.saurabhpandeyupsc.com](http://web.saurabhpandeyupsc.com)

For any query msg- [9057921649](tel:9057921649)



# Target Mains 2024

**Q "What role culture can play in international relation??**

**प्रश्न "अंतर्राष्ट्रीय संबंध में संस्कृति क्या भूमिका निभा सकती है??**

**SEND ANSWER- SAURABH PANDEY UPSC  
Telegram channel**

**For any query msg-  
9057921649**

**mail-  
saurabhpandey456321@gmail.  
com**

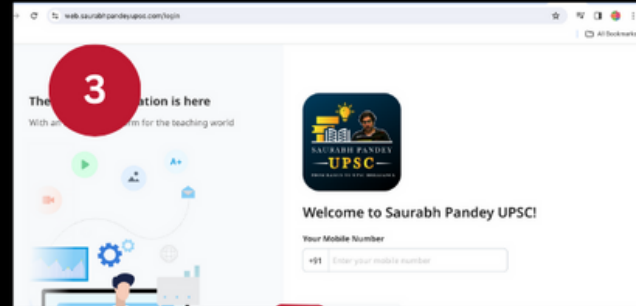
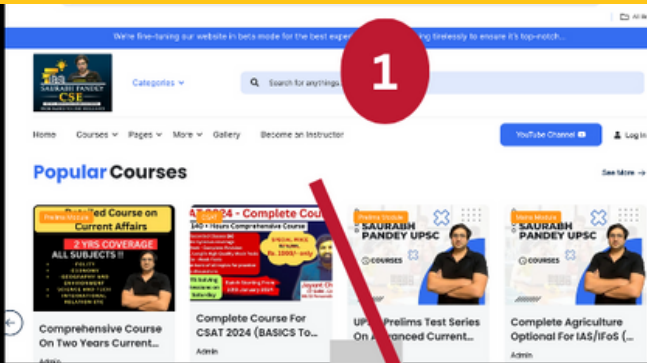
# **Courses Active**

**Prelims test series on advanced  
current affairs (total 50 tests)Saurabh  
Pandey UPSC: Home ( Every Thursday  
and saturday)**

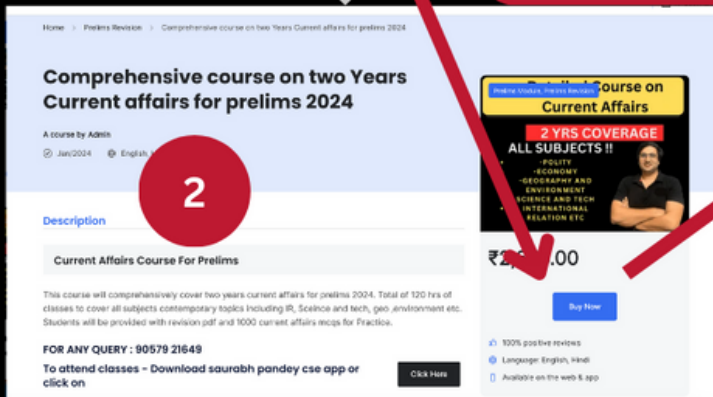
**visit [saurabhpandeyupsc.com](http://saurabhpandeyupsc.com)**

**For any query msg- 9057921649  
mail-  
[saurabhpandey456321@gmail.com](mailto:saurabhpandey456321@gmail.com)**

# HOW TO JOIN??



[saurabhpandeyupsc.com](http://saurabhpandeyupsc.com)



How to join???

For any query msg- 9057921649  
mail-  
saurabhpandey456321@gmail.com