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INDEX

- ❖ **Nobel Prize: General Points**
- ❖ **What is the Nobel Foundation?**
- ❖ **Prizes**
- ❖ **When did the Nobel Prize for Economics start?**
- ❖ **Who was Alfred Nobel?**
- ❖ **Important Facts: A Glimpse**
- ❖ **Indian Nobel Laureates**
- ❖ **List of Nobel Prize winners for 2024:-**
 - 1) Nobel Prize in Physics 2024**
 - 2) Nobel Prize in Chemistry 2024**
 - 3) Nobel Prize in Physiology or Medicine 2024**
 - 4) Nobel Prize in Literature 2024**
 - 5) Nobel Peace Prize 2024**
 - 6) Nobel Prize in Economic Sciences 2024**
- ❖ **Nomination Process: How are Nobel Prize winners selected?**
- ❖ **Overview of the Nomination Process**
- ❖ **Announcement of the Nobel Prize 2024**
- ❖ **Questions and Answers Related to the Nobel Prize**

Nobel Prize

- ✓ The Nobel Prize is a remarkable honor that recognizes individuals for their amazing contributions to their fields of study. Receiving this prestigious award is quite a challenging feat!
- ✓ Many recipients spend many years conducting revolutionary research and discoveries before being awarded this prestigious award.
- ✓ Established in 1895 by Swedish chemist, engineer and inventor Alfred Nobel, the prize is awarded annually in six categories: physics, chemistry, physiology or medicine, literature, peace and economic sciences.
- ✓ The Nobel Prize ceremony is held every year on 10 December in Stockholm, Sweden, on the occasion of Alfred Nobel's death anniversary.



What is the Nobel Foundation?

- ✓ The Nobel Foundation was established on 29 June 1900 and the Nobel Prize began to be awarded from 1901. Its purpose is to financially administer the Nobel Prizes.
- ✓ The Nobel Foundation has a team of 5 people whose head is decided by the King of Council of Sweden and the other four members are decided by the trustees of the award distributing institution.
- ✓ The committee and selectors formed for the award announce the Nobel Prize winners every year in October but the awards are distributed on Alfred Nobel's death anniversary, 10 December.
- ✓ The Nobel Prize ceremony is held in Stockholm. In this ceremony, the honored persons receive the award from the King of Sweden.

Prizes

- ✓ Each award winner is given a gold medal, a diploma and a cash prize.
- ✓ Currently, the cash prize is 11 million Swedish Krona (about \$1.1 million).

When did the Nobel Prize for Economics begin?

- ✓ In Alfred Bernard Nobel's 1895 will under which the Nobel Prizes were started in 1901, there is no mention of any award for contribution in the field of economics. But in 1968, the Central Bank of Sweden started this award in memory of Alfred Nobel on its 300th anniversary.
- ✓ The first Nobel Prize in Economics was given in 1969 to Ragnar Anthon Kittil Frisch of Norway and Jan Tierbergen of the Netherlands.

Who was Alfred Nobel?

- ✓ Alfred Bernard Nobel was born in 1833 in Stockholm, the capital of Sweden.
- ✓ At the age of 9, he moved to Russia with his family.
- ✓ When Nobel was 18 years old, he was sent to America to study chemistry.
- ✓ Alfred Nobel discovered dynamite in 1867. Nobel made a total of 355 inventions in his entire life. But he earned the most fame and money from the invention of dynamite in 1867.
- ✓ Nobel never married in his life. On 10 December 1896, Nobel died in Italy due to a heart attack.





355

The patents are in the name of Alfred Nobel, but people know him better for dynamite.

Till now 609 Nobel Prizes have been awarded to 975 personalities and institutions.



Alfred learned Swedish, Russian, English, French and German.



Dynamite started being used so much in the construction industry that Alfred opened its factories at 90 places.



These factories were in more than 20 countries. He used to roam around factories continuously. Many people called him 'Europe's richest vagabond'.



Seeing the misuse of dynamite, Alfred felt sad about his invention. For this, he expressed his wish to give a reward from his property to those who benefit humanity.



Alfred wrote his last will in November 1895. On the basis of this will, the Nobel Prizes were established.

Important facts: An overview

- ✓ The first Nobel Peace Prize was awarded in 1901 jointly to Jean-Harri Dunant, founder of the Red Cross, and Frederic Passy, founding president of the French Peace Society.
- ✓ The Nobel Peace Prize is awarded in Oslo, while all other prizes are awarded in Stockholm.
- ✓ A maximum of three people from any one region can be awarded the prize in a year. Each of these winners is given a gold medal, diploma and a fixed amount of money.
- ✓ The prize money each year depends on the income of the Nobel Foundation.
- ✓ If a prize is given jointly to two people, then the amount is divided equally between the two.
- ✓ Till now this prize has been given to dead persons only twice. The first time was to Erik Axel Karlfeldt in 1931 and the second time was to Dag Hammarskjöld, Secretary General of the United Nations, in 1961. But in 1974 a rule was made that the Nobel Prize will not be awarded to anyone posthumously.
- ✓ Mahatma Gandhi, who got freedom for India only due to non-violence, never got the Nobel Peace Prize. However, he got nominated five times.



Indians who received Nobel Prize

- ✓ 9 people belonging to India have received the prize in different categories so far-

Rabindranath Tagore

- ✓ Tagore was the first Nobel Prize winner from India who was awarded this award for his contribution in the field of literature.
- ✓ When Tagore received this honour in 1913, he was the first non-European to receive this award.



Hargovind Khorana

- ✓ Renowned Indian scientist Hargovind Khorana received the Nobel Prize in the field of medicine in 1968. Khorana's research was on the subject of how antibiotics are widely used in the body. Born in Punjab, India, Khorana later studied at the renowned MIT Institute of America and settled in America.



CV Raman

- ✓ CV Raman was born in Madras. He discovered the Raman effect related to light. He was awarded this prize in the field of physics in 1930.



VAS Naipaul

- ✓ Vidyadhar Surajprasad Naipaul, born in Trinidad and Tobago, had ancestors who reached Trinidad as indentured labourers from Gorakhpur. Naipaul, who lives in Britain, was awarded the Nobel Prize in 2001 for his contribution to the field of literature.

Venkat Ramakrishnan

- ✓ Venkat Ramakrishnan of Indian origin was born in Madurai. He was awarded the Nobel Prize in Chemistry in 2009 for his research on the structure and functioning of ribosomes.



Mother Teresa

- ✓ Mother Teresa received the Nobel Peace Prize in 1979. Mother Teresa was born in Albania. In 1928, she joined the Irish organization Sisters of Loreto and became a missionary and came to Kolkata in 1929.



Subramanyam Chandrasekhar

- ✓ Chandrasekhar was born in Lahore in 1910. He received the Nobel Prize in 1983 for his theoretical research on the shape of stars and how stars are formed.

Kailash Satyarthi

- ✓ The 2014 Nobel Peace Prize was awarded to Kailash Satyarthi. Kailash has been given this award in view of his work for children.



RK Pachauri



- ✓ Rajendra Pachauri's work was in the field of environment and he was associated with TERI (Tata Energy Research Institute) for a long time. In the year 2007, he was jointly awarded the Nobel Peace Prize along with the United Nations Committee on Climate Change.

Amartya Sen

- ✓ Economist Amartya Sen was well known for his book The Argumentative Indian, but his work in economics has been remarkable. He was awarded the Nobel Prize in the field of economics in 1998.

Abhijit Banerjee

- ✓ The prestigious Nobel Prize in Economics for the year 2019 was jointly awarded to Indian-American economist Abhijit Banerjee, his wife Esther Duflo as well as economist Michael Kremer. They were awarded the Nobel for their experimental approach to reducing poverty at the international level.



Indians who won Nobel Prize: At a glance

Scholar	Year	Subject
Rabindranath Tagore	1913	Literature
Sir C.V. Raman	1930	Physics

Har Gobind Khorana	1968	Physiology/Medicine
Mother Teresa	1979	Peace
Subramanyan Chandrasekhar	1983	Physics
Amartya Sen	1998	Economic Sciences
Vektraman Ramakrishnan	2009	Chemistry
Kailash Satyarthi	2014	Peace
Abhijit Banerjee	2019	Economic Sciences

List of Nobel Prize winners 2024

Here is the list of Nobel Prize winners 2024 in each category. From chemistry to physics, the 2024 Nobel Prize winners have made groundbreaking contributions in their respective fields.

1) Nobel Prize in Physics 2024

- **Recipient:** John Hopfield and Geoffrey Hinton
- For foundational discoveries and inventions enabling machine learning with artificial neural networks

The Nobel Prize in Physics 2024 was awarded to John J. Hopfield and Geoffrey E. Hinton on October 8, 2024, in Stockholm, Sweden. They were honored for their foundational work in machine learning using artificial neural networks.



Their contributions include Hopfield's framework for information storage and reconstruction and Hinton's techniques for discovering properties within data, which are essential to modern machine learning applications. The award highlights the importance of their research in advancing technology and artificial intelligence.

2) Nobel Prize in Chemistry 2024

- **Recipients:** David Baker, Demis Hassabis and John Jumper
- **Achievement:** For computational protein design (David Baker), For protein structure prediction (Demis Hassabis and John Jumper)



On October 9, 2024, David Baker, Demis Hassabis and John Jumper will be awarded the 2024 Nobel Prize in Chemistry for their groundbreaking contributions to protein science.

The Royal Swedish Academy of Sciences honored Baker for his innovative work in protein design, while Hassabis and Jumper were honored for their advances in computational methods that enhance our understanding of protein structures and functions. The award ceremony took place in Stockholm, Sweden.

3) Nobel Prize in Physiology or Medicine 2024

- **Recipient:** Victor Ambros and Gary Ruvkun
- **Achievement:** Discovery of microRNA and its role in gene regulation



The Nobel Prize in Physiology or Medicine 2024 was awarded to Victor Ambros and Gary Ruvkun on October 7, 2024 in Stockholm, Sweden.

They were awarded the prize for their groundbreaking discovery of microRNA and its key role in post-transcriptional gene regulation.

Their research, which began in the late 1980s, focused on the roundworm *Caenorhabditis elegans*. They identified how microRNAs can regulate gene expression, influencing cellular behaviour and development. This discovery has important implications for understanding a variety of health challenges, including cancer and genetic disorders.

4) Nobel Prize in Literature 2024

- **Recipient:** Han Kang
- **Achievement:** For her intensely poetic prose that confronts historical traumas and exposes the fragility of human life

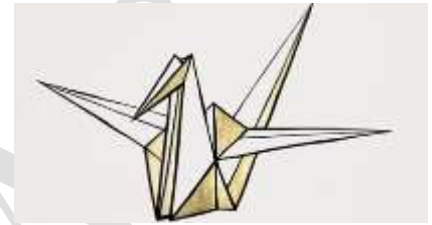


The Nobel Prize in Literature 2024 was awarded to South Korean writer Han Kang on October 10, 2024 in Stockholm, Sweden. She was given the award for her "intensely poetic prose that confronts historical traumas and exposes the fragility of human life."

Han Kang is known for her notable works, including *The Vegetarian* and *Human Acts*, which explore deep emotional and social themes. The award will be formally presented to her in December 2024.

5) Nobel Peace Prize 2024

- **Recipient:** Nihon Hidankyo
- **Achievement:** For its efforts to achieve a world free of nuclear weapons and to demonstrate through witness accounts that nuclear weapons should never be used again.



The Nobel Peace Prize 2024 was awarded to Nihon Hidankyo in Oslo, Norway on October 11, 2024.

This Japanese organization, composed of atomic bomb survivors (hibakusha), was recognized for its efforts to achieve a world free of nuclear weapons and to demonstrate through witness accounts that nuclear weapons should never be used again. The award highlights the importance of personal stories in raising awareness of the catastrophic consequences of nuclear war.

6) Nobel Prize in Economic Sciences 2024

- **Recipient:** Daron Acemoglu, Simon Johnson and James Robinson
- **Achievement:** For the study of how institutions form and affect prosperity



The Royal Swedish Academy of Sciences has decided to award the Sveriges Riksbank Prize in Economic Sciences 2024 in Memory of Alfred Nobel to Daron Acemoglu, Simon Johnson and James A. Robinson "for the study of how institutions form and affect prosperity."

The Nobel Prize in Economic Sciences 2024 was awarded to Daron Acemoglu, Simon Johnson and James A. Robinson for their research on how institutions form and how they affect prosperity.

The announcement was made by the Royal Swedish Academy of Sciences in Stockholm, Sweden on October 14, 2024. Their work provides insights into the political and economic factors that shape institutions and their impact on societal wealth and development.



Nomination Process: How Are Nobel Prize Winners Selected?

The Nobel Prize nomination and selection process is a careful and confidential process that varies slightly between the different prize categories. Below is a detailed description of how winners are selected, including examples to illustrate the process.

Overview of the Nomination Process

1) Eligible Nominators:

Nominations can only be submitted by individuals who meet specific criteria, which vary by category. For example:

- **Physics and Chemistry:** Nominations are usually made by members of the Royal Swedish Academy of Sciences, Nobel Prize winners in these fields, and permanent professors at select universities.
- **Literature:** Eligible nominators include members of the Swedish Academy, professors of literature, and former Nobel Prize winners in literature.
- **Peace Prize:** Anyone who meets the nomination criteria can submit a nomination, including former prize winners and members of national governments.

2) Nomination Timeline:

- **September:** The Nobel Committee sends out invitations to nominate to eligible individuals.
- **January 31:** This is the deadline for submitting nominations. Nominations received after this date will be considered for the following year.
- After the deadline, the committees begin reviewing nominations.

3) Shortlisting of candidates:

The committees evaluate all nominations and create a list of candidates. This list usually includes 20-30 names for further consideration.

4) Expert review:

The shortlisted candidates are evaluated by experts in the relevant fields who prepare detailed reports on each candidate's contributions. This process may involve consulting international experts to gather additional information.



5) Final selection:

The committees present their findings and recommendations to the prize-awarding bodies (e.g., the Royal Swedish Academies for Physics and Chemistry, and the Norwegian Nobel Committee for Peace).

The final decision is made on the basis of majority vote during meetings held in early October, just before the prizes are announced.

6) Confidentiality:

All information related to nominations is kept confidential for 50 years. This includes the names of the nominees and nominators as well as discussions related to the awards.

2024 Nobel Prize Announcement

The prize awarding bodies have decided to announce their 2024 prize decisions as follows:

1) Physiology or Medicine

- Monday, 7 October
- Nobel Assembly at Karolinska Institutet, Wallenbergssalen, Nobel Forum, Nobels Väg 1, Solna

2) Physics

- Tuesday, 8 October
- Royal Swedish Academy of Sciences (Kungl. Vetenskapsakademien, KVA), Sessionssalen, Lilla Freskativägen 4a, Stockholm

3) Chemistry

- Wednesday, 9 October
- Royal Swedish Academy of Sciences, Sessionssalen, Lilla Freskativägen 4a, Stockholm

4) Literature

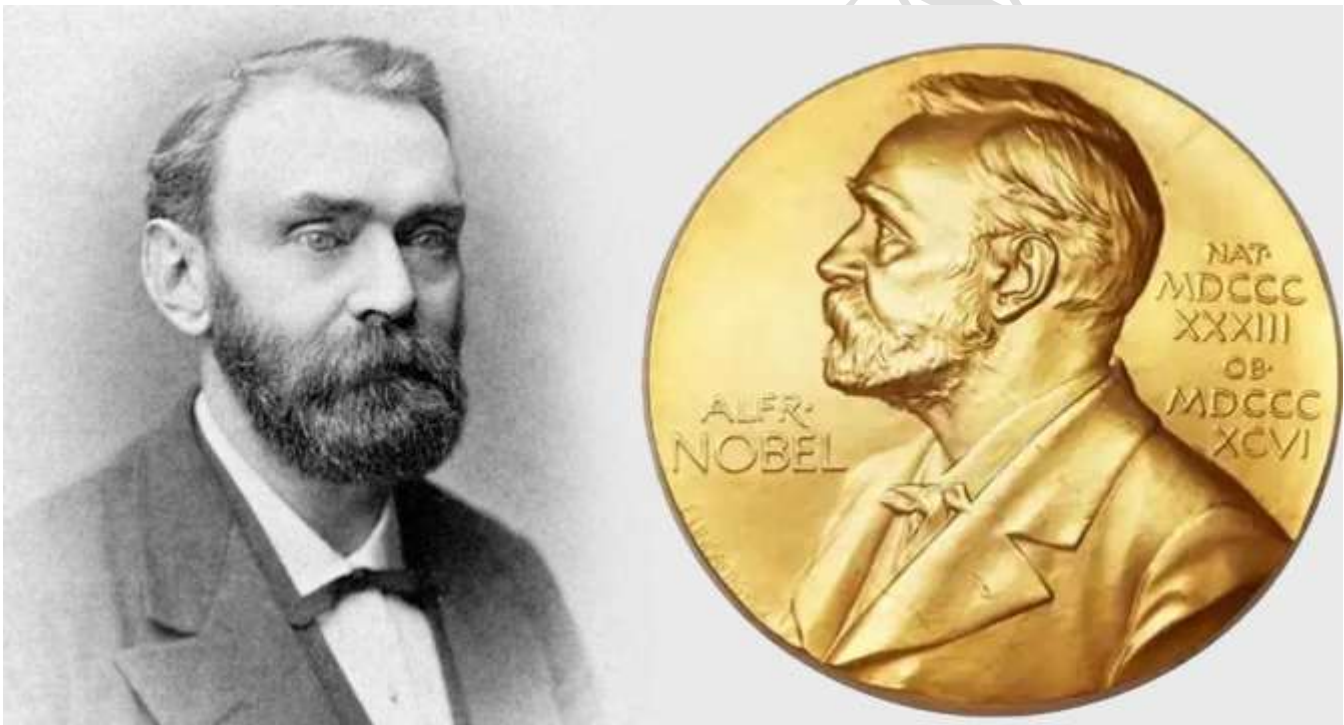
- Thursday, 10 October
- Swedish Academy (Svenska Akademien), Borssalen, Kallargränd 4, Stockholm

5) Peace

- Friday, 11 October
- Norwegian Nobel Committee, Norwegian Nobel Institute (Norska Nobelinstitutet), Store Sal, Henrik Ibsens gate 51, Oslo

6) The Sveriges Riksbank Prize in Economic Sciences in Memory of Alfred Nobel

- Monday, 14 October
- Royal Swedish Academy of Sciences, Sessionssalen, Lilla Freskativägen 4a, Stockholm



**Questions and answers related to Nobel Prize****1. When is the 'Nobel Prize' given every year?**

- (a) 10th December
- (b) 18 January
- (c) 15 August
- (d) 26 January

- ✓ The winners of the Nobel Prize are announced every year in October
- ✓ It is given on 10 December, on the death anniversary of Alfred Nobel

2. In how many fields is the Nobel Prize given?

- (a) 4
- (b) 5
- (c) 6
- (d) 7

- ✓ The Nobel Prize is given in '6 fields'
- ✓ Names of 6 fields - Medicine, Physics, Chemistry, Peace, Economics, Literature

3. Who has been awarded the 'Nobel Peace Prize for 2024'?

- (a) Nihon Hidankyo (Japanese Organization)
- (b) David Baker
- (c) Han Kang
- (d) John Fosse

Why awarded- The 2024 Nobel Peace Prize has been awarded to the Japanese organization Nihon Hidankyo for their activism against nuclear weapons aided by survivors (known as hibakusha) of the atomic bombings of Hiroshima and Nagasaki in 1945

Who awards- The Nobel Peace Prize is awarded in Oslo, Norway and the recipient is chosen by the Norwegian Nobel Committee, a five-member committee appointed by the Norwegian Parliament

2023 winner- Nargis Mohammadi was awarded the Nobel Peace Prize 2023 for her remarkable efforts in combating the oppression of women in Iran and her unwavering dedication to advancing human rights and freedom for all

**4. When were the 'Nobel Prizes' given for the first time?**

- (a) 14 August 1935
- (b) 1 June 1999
- (c) 10 December 1901**
- (d) 29 September 2000

✓ 'The Nobel Prize was first awarded to Henry Dunant and Frederic Pesce in 1901

5. Who will be awarded the '2024 Nobel Prize in the field of Economics'?

- (a) Daron Acemoglu
- (b) Simon Johnson
- (c) James A. Robinson
- (d) All of the above**

Which country do the three recipients belong to -

- 1) Daron Acemoglu - Turkish-American economist
- 2) Simon Johnson - British American economist
- 3) James A. Robinson - Britain

Why was it given - Daron Acemoglu has tried to understand the impact of political and economic institutions in his research work. His work shows how institutions affect development and prosperity. Apart from him, Simon Johnson and James A. Robinson are also scholars who have made significant contributions in the field of economics, who have played an important role in explaining the complexities of the global economy.

Who awards it - Royal Swedish Academy of Sciences

2023 Winner - Last year in 2023, this award was given to Claudia Goldin, who did important research in understanding the situation of women in the labor market

6. Who has been awarded the 2024 Nobel Prize in the field of 'Literature'?

- (a) David Baker
- (b) Han Kang**
- (c) John M Jumper
- (d) John Fosse

Recipient belongs to which country - Han Kang - South Korea



Why was it given - The 2024 Nobel Prize in Literature was awarded to South Korean writer Han Kang "for her intensely poetic prose, which confronts historical traumas and exposes the fragility of human life"

2023 Winner - John Fosse for his innovative plays and prose

7. Who received the first Nobel Prize in the field of Economics?

- (a) Regnar Frisch (Norway)
- (b) Jan Tinbergen (Netherlands)
- (c) Suitable for both**
- (d) none of these

8. Who will be awarded the 2024 Nobel Prize in the field of 'Physics'?

- (a) John Hopfield
- (b) Geoffrey Hinton
- (c) Both A & B**
- (d) Victor Ambrose

Both the recipients belong to which country –

- 1) John Hopfield – America
- 2) Geoffrey Hinton – America

Why was it given- American scientists John Hopfield and Geoffrey Hinton will be awarded the Nobel Prize in Physics for discoveries that enable machine learning

Who awards it – Royal Swedish Academy of Sciences, Stockholm, Sweden

2023 winners – Pierre Agostini (France), Ferenc Krausz (Hungary), Anne L'Huillier (France)

9. Who has been awarded the 2024 Nobel Prize in the field of 'Chemistry'?

- (a) David Baker
- (b) Demis Hassabis
- (c) John M Jumper
- (d) All of the above**

All the three recipients belong to which country –

- 1) David Baker – America
- 2) Demis Hassabis – Britain
- 3) John M Jumper – America

Why was it given- The first part has been given to David Baker, who has created a new type of protein. Protein design is a technique in which proteins with new properties are created by changing the structure of the protein. This helps in making medicines and vaccines, while the second part of the prize went to Demis and John Jumper, who created an AI model that helped understand the structure of complex proteins

Who provides it - Royal Swedish Academy of Sciences

2023 Winners - For the unprecedented invention and synthesis of quantum dots, Mongi G. Bawendi, Lewis E. Bruce and Alexey I. Ekimov have been awarded the Nobel Affalta By Prize 2023 in Chemistry.

10. Who will be awarded the Nobel Prize 2024 in the field of medicine?

- (a) Victor Ambros
- (b) Gary Ruakun
- (c) Both of the above
- (d) None of the Above

Both the recipients belong to which country –

- 1) Victor Ambrose – America
- 2) Gary Ruvkun – America

Why was it given – Scientists received this prestigious award for the discovery of microRNA and its contribution to post-transcriptional gene regulation

Who gives it – Karolinska Institute (Sweden)

2023 Winners – Catalin Kariko, Du Weisman

11. In whose memory is the Nobel Prize given every year?

- (a) Mahatma Gandhi
- (b) Alfred Nobel
- (c) Abraham Lincoln
- (d) Nelson Mandela

- ✓ Alfred Nobel was born in Sweden on 21 October 1833
- ✓ He invented an explosive called dynamite, Alfred Nobel died on 10 December 1896 in San Remo, Italy



12. Who was the 'first African person' to be awarded the Nobel Peace Prize in 2004?

- (a) Nelson Mandela
- (b) Wangari Maathai
- (c) Elon mask
- (d) none of these

13. Which two Indians have so far been awarded the Nobel Prize in the field of Economics?

- (a) Amartya Sen (1998)
- (b) Abhijit Banerjee (2019)
- (c) Suitable for both
- (d) none of these

- ✓ Amartya Sen was the first Indian to receive the Nobel Prize in the field of economics in 1998
- ✓ Abhijit Vinayak Banerjee was awarded the Nobel Prize in Economics 2019

14. Who was the first man to be awarded 'Nobel Prize in two different fields'?

- (a) Barack Obama
- (b) APJ Abdul Kalam
- (c) Linus Pauling
- (d) none of these

15. Who awards the Nobel Prize in medicine?

- (a) The Royal Swedish Academy of Sciences
- (b) Karolinska Institute (Sweden)
- (c) Swedish Academy
- (d) none of these

- ✓ **Peace** - a five-member committee elected by the Norwegian Parliament (Storting)
- ✓ **Chemistry Physics and Economics** - The Royal Swedish Academy of Sciences (Sweden) RAVI
- ✓ **Literature** - The Swedish Academy (Sweden)

16. Which is the 'only organization awarded the Nobel Prize three times'?

- (a) UNICEF
- (b) ILO
- (c) International Committee of the Red Cross
- (d) United Nations

- ✓ The Red Cross is an international organization whose mission is to protect human life and health
- ✓ It was founded in 1863 by Henry Dunant in Geneva, its headquarters is in Geneva (Switzerland)
- ✓ It has received the Nobel Peace Prize three times (1917, 1944, 1963)

17. Who is the 'youngest person' to be awarded the Nobel Prize?

- (a) Abi Ahmed Ali
- (b) Indira Gandhi
- (c) Marie Curie
- (d) Malala Yousafzai

- ✓ Malala Yousafzai received the Nobel Peace Prize (2014) and she is from Pakistan
- ✓ The oldest person to receive the Nobel Prize is John B Goodenough (97 years), he is an American scientist and belongs to Germany, in 2019 he received the Nobel Prize in the field of Chemistry

18. Who was the 'first woman' to be awarded the Nobel Peace Prize?

- (a) Indira Gandhi
- (b) Baroness Bertha Sophie Felicita von Suttner
- (c) Malala Yousafzai
- (d) none of these

- ✓ She received the Nobel Peace Prize in 1905 and she is from Austria

19. 'What is the maximum number of people who can be given Nobel Prize' in any one field?

- (a) 4
- (b) 5
- (c) 3
- (d) 2

20. Who was the first Indian to be awarded the Nobel Prize?

- (a) K Sivan
- (b) APJ Abdul Kalam
- (c) Rabindranath Tagore
- (d) Indira Gandhi

- ✓ Rabindranath Tagore was awarded the Nobel Prize in the field of literature.
- ✓ He was awarded the Nobel Prize in 1913.
- ✓ Rabindranath Tagore was awarded the Nobel Prize for his work Gitanjali.



21. Who was the 'first Indian woman' to receive the Nobel Prize in 1979?

- (a) Indira Gandhi
- (b) Mother Teresa
- (c) Sarojini Naidu
- (d) none of these

22. When were the Nobel Prizes for Economics started?

- (a) 1901
- (b) 1997
- (c) 2018
- (d) 1969

- ✓ On 10 December 1903, she was awarded the Nobel Prize in the field of Physics
- ✓ Marie is famous for discovering radioactivity
- ✓ Marie Curie was from Poland

23. Which woman received the first Nobel Prize in 1903?

- (a) Marie Curie
- (b) Malalfajai
- (c) Mother Teresa
- (d) None of these

24. Who was the first person to be awarded the Nobel Prize in the field of literature in the English language?

- (a) Savindranath tagore
- (b) Rajnish Kumar
- (c) Rudyard Kipling
- (d) none of these

- ✓ In 1907, he was the first person to be awarded the Nobel Prize for "The Jungle Book"

25. Who is the first and only woman to be awarded 'Nobel Prize in two different fields'?

- (a) Marie Curie
- (b) Indira Gandhi
- (c) Malala Yousafzai
- (d) None of these

26. Who was the first person to be awarded the Nobel Prize in the field of Physics?

- (a) Isaac newton
- (b) James chedwick
- (c) Wilhelm Conrad Röntgen
- (d) APJ Abdul Kalam

- ✓ Wilhelm Conrad Röntgen received the Nobel Prize in Physics in 1901 for the discovery of X-rays
- ✓ He was from Germany

27. Which four persons have been awarded the Nobel Prize twice?

- (a) Madame curie
- (b) Linus Pauling
- (c) John bardeen
- (d) Frederick Sanger
- (e) Suitable for all

- ✓ **Madame Curie** – for the discovery of radioactivity in 1903 and for the extraction of pure radium in 1911
- ✓ **Linus Pauling** – for the theory of Hebridized in 1954 and for Nuclear Non-Proliferation Treaty activism in 1962
- ✓ **John Bardeen** – for the invention of transistor in 1956 and for the theory of superconductivity in 1972 GK
- ✓ **Frederick Sanger** – for the structure of insulin molecule in 1958 and for sequencing of virus nucleotides in 1980



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