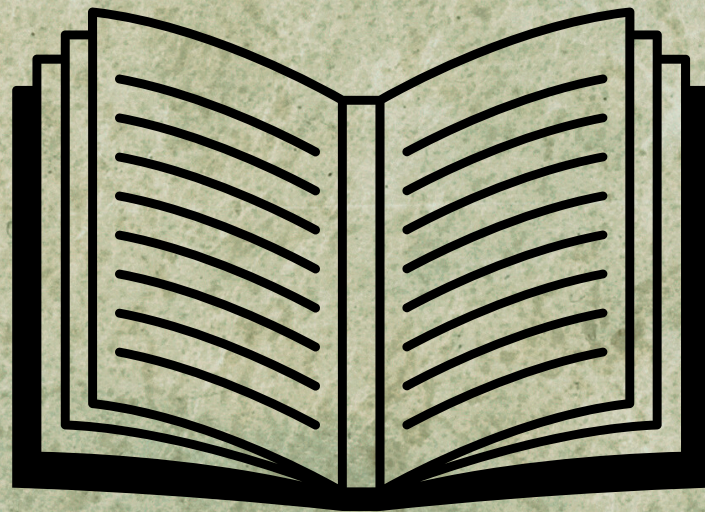


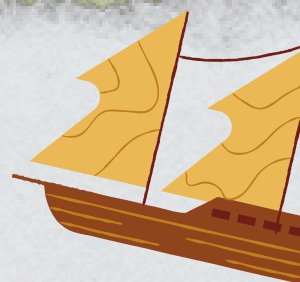


# General Knowledge



**"KNOWLEDGE HAS A BEGINNING  
BUT NO END"**

**CLASS – VI**





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# Unit 1

## ***ENVIRONMENT AND NATURE***



# MASTERS OF ADAPTION

## Adaptations (Worksheet)

### Q.1. Fill in the blanks with suitable words.

- \_\_\_\_\_ are any behavioural or physical characteristics of an organism that develops over time and allows it to survive in its environment.
- \_\_\_\_\_ is the environment in which an organism naturally lives and grows.
- \_\_\_\_\_ is a type of adaptation that allows animals to blend in with their surroundings.

### Q.2. Write T or True if the statement is true; write F or False if the statement is false.

- An adaptation is an inherited trait that helps a species survive in its environment.
- The instinct of an animal is something the animal has learned.
- Octopus releases ink into the water when it finds itself in danger.
- Behavioral adaptations do not help organisms to survive.
- Some animals that hibernate don't move or eat for months at a time.

### Q.3. Which plant is best adapted to survive in the desert?

- Cactus
- Water lily
- Daisy
- Rose

### Q.4. Classify following adaptations as Physical adaptation or Behavioural adaptation.

Wild geese fly south in the fall.



Giraffes have long necks.



Cacti have thick waxy skin.



Worker ants communicate with one another using chemical signals.







## *Unit 2*

# ***TICKET TO OUR NATION – INDIA***



# 2

# THE CONSTITUTION OF INDIA



***Given below is a paragraph on constitution of India. Read it carefully and answer the following questions in one word or in a single line.***

Constitution is a book of laws and rules which helps the government run a country. There are three organs of the governments namely the executive legislature and the judiciary. After the independence on 15th August 1947, a constituent assembly came into existence; in which there were 389 members. Dr. Bheemrao Ramji Ambedkar was the chairman of the drafting committee of constitution. It took 2 years 11 months and 17 days to prepare the constitution of India by the constituent assembly. After its completion in 1949 it came into effect on 26 January 2018.

1. How much time was taken by the Constitution Assembly to prepare the Constitution?
2. Who was the Chairman of the Drafting Committee of Constitution?
3. When did the Constitution of India come into effect?
4. How many members of the Constituent Assembly were there?
5. How many branches are there of government of India? Name them.



3

# Architectural Marvels of India



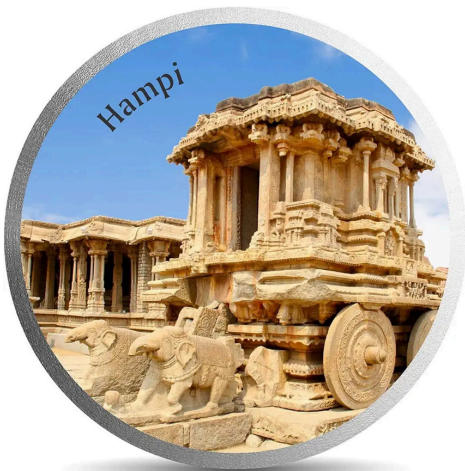
1. \_\_\_\_\_



2. \_\_\_\_\_



3. \_\_\_\_\_



4. \_\_\_\_\_



5. \_\_\_\_\_



6. \_\_\_\_\_



7. \_\_\_\_\_

## Clue Box

Agra  
Amritsar  
Madhya Pradesh  
Bihar  
Odisha  
Shravanbelagola  
Karnataka



# 4

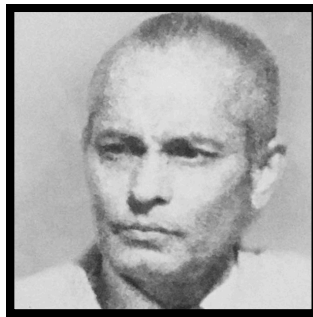
## ARTISTIC TREASURES IN INDIA

In India, the "artistic treasures" are considered to be the works of nine prominent artists, often referred to as the "Navratnas" (Nine Gems), including Raja Ravi Varma, Amrita Sher-Gil, Rabindranath Tagore, Gaganendranath Tagore, Abanindranath Tagore, Nicholas Roerich, Nandalal Bose, Jamini Roy, and Sailoz Mookherjea; their artworks are classified as National Art Treasures under the Antiquities and Art Treasures Act of 1972, meaning they cannot be exported from the country due to their significant cultural value.

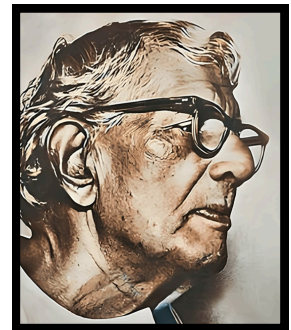
### 1. Identify the Nine Gems of India from the above paragraph.



1. \_\_\_\_\_



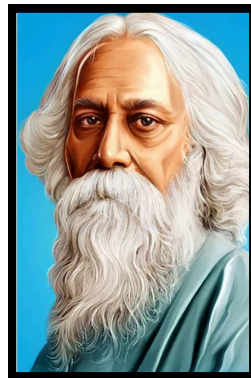
2. \_\_\_\_\_



3. \_\_\_\_\_



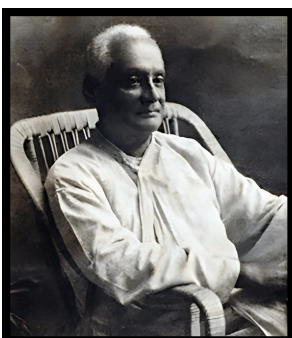
4. \_\_\_\_\_



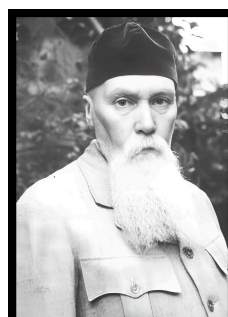
5. \_\_\_\_\_



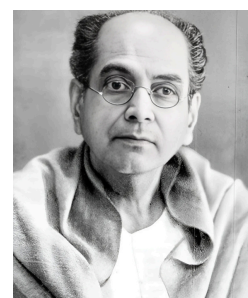
6. \_\_\_\_\_



7. \_\_\_\_\_



8. \_\_\_\_\_



9. \_\_\_\_\_

# 5

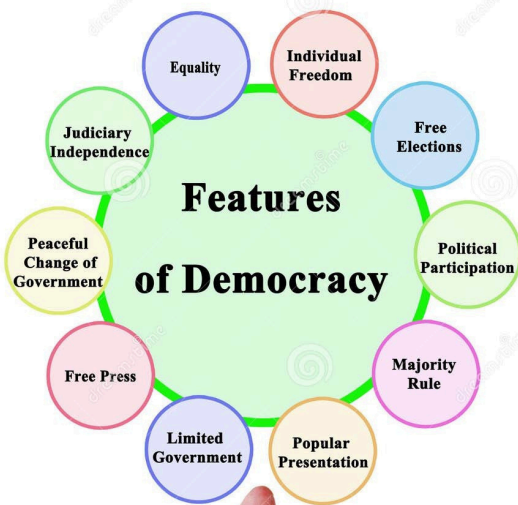
## FRAMEWORKS OF INDIA'S DEMOCRACY

### What is Democracy ?

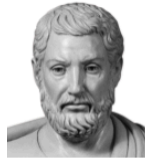
It is a system of government in which all the eligible citizens of a country can vote to elect their representatives. These government make decisions on behalf of the people .

### Democracy in India

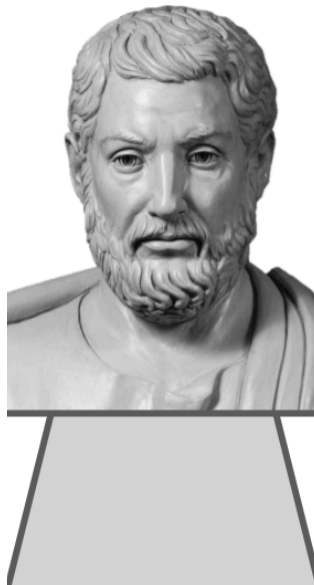
In india, it was long struggle to provide all citizens the right to elect their respectives. When India attained independence, the right to vote was extended to all sections of society.



### The Father of Democracy



Cleisthenes was considered the Father of Democracy. Provide the details being asked about him.



#### PERSONAL FACTS

Date of Birth

▪ \_\_\_\_\_

Birthplace

• \_\_\_\_\_

Parents

▪ \_\_\_\_\_

Family

• \_\_\_\_\_

#### ACCOMPLISHMENTS

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

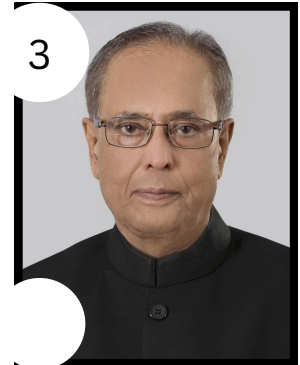
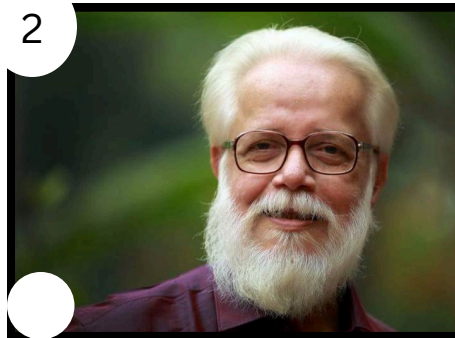
\_\_\_\_\_



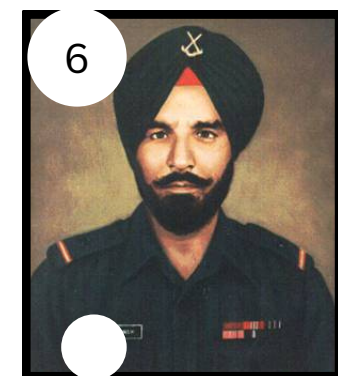
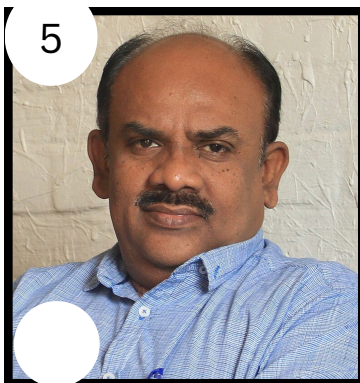
# 6

## National Awards

### Civilian Awards



### Sahitya Akadmi Award (literature)



### Param Vir Chakra

### Arjuna Award ( sports)

- a.) Amit Kumar
- b.) S Ramkrishnan
- c.) Harika Dronavali
- d.) Nambi Narayana
- e.) Pranab Mukherjee
- f.) Bana singh





## Unit 3

# ***ADVANCEMENTS OF SCIENCE AND TECHNOLOGY***

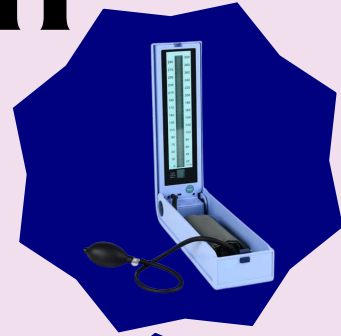


# 7

# RESCUE MACHINES FOR HEALTH

Identify the instruments with the help of the pictures and clues provided .

1. An essential machine for doctors. It is used to measure blood pressure. It has saved billions of lives from strokes and heart attack.



2. A life- saving machine for diabetic patient that checks the blood sugar and identifies excessive high or low blood glucose level.



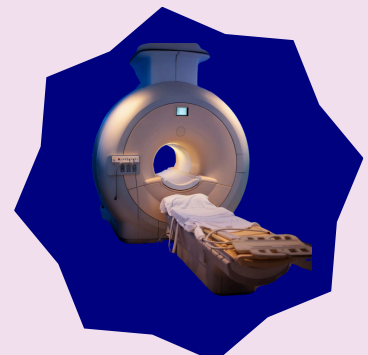
3. This device use artificial heart and lungs for a patient undergoing bypass surgery when his or her heart and lungs are not working.



4. A machine to purify blood for patients who cannot normally remove the blood urea through urine because of kidney failure it is an important machine for the survival of such patients.



5. A device for detecting abnormalities like cancer that are situated deep inside the body. It works on the principle of the effect of magnetic field on electrons.



# 8

# CYBER THREATS

In recent times everything around us is computerised spanning huge fields like banking online transactions personal data documents involving national security etc. However as merit carries its own demerits the online world is under threat from the hackers who have tried to disrupt it resulting in loss of billions of dollars.

**Fill in the blanks choosing the correct words from the help box:**

1. Branch of science that deals with passwords and aims at securing communication is\_\_\_\_\_.
2. Ethical hackers who track a system for improving its security features are known as \_\_\_\_\_.
3. Any bank transactions are to be done on the web browser with\_\_\_\_\_activated.
- 4..Virus that changes itself depending upon the situation a deals with is called\_\_\_\_\_.
- 5.\_\_\_\_\_ is the primary attack blocked by a firewall.
- 6.The virus \_\_\_\_\_ was capable of destroying the hardware.
7. A virus that cannot make its copies but once it isn't inside a system it breaks the security and obtains user data is \_\_\_\_\_.
8. The process of mimicking a site by a fraudulent agency to acquire user information is called\_\_\_\_\_.
9. A virus that changes itself depending upon the situation it deals with is called \_\_\_\_\_.
10. \_\_\_\_\_ is a act of harming and harrassing through information technology in a deliberate manner.

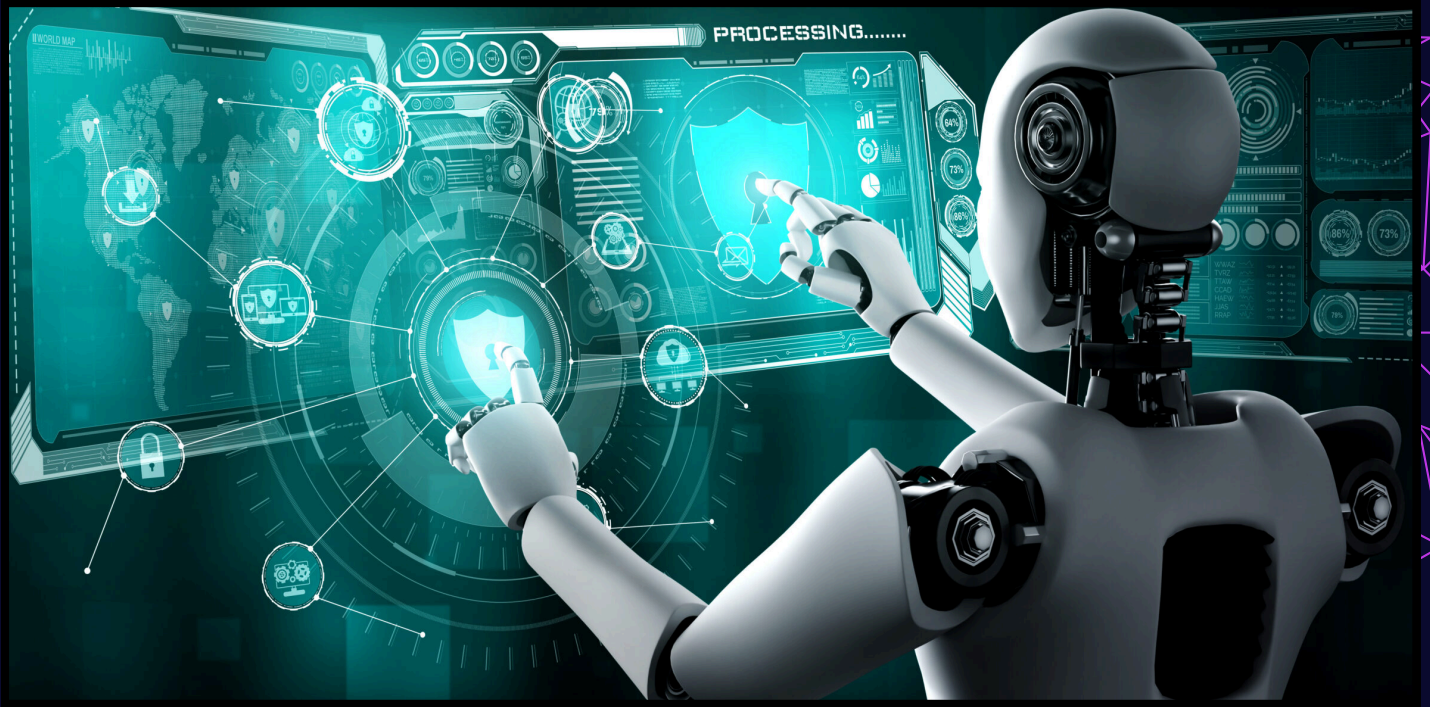
## Help Box

|                   |                    |
|-------------------|--------------------|
| White Hat Hackers | Firewall           |
| Cryptography      | Denial of Service  |
| Polymorphic Virus | Phishing           |
| Cheynobyl         | 128 Bit Encryption |
| Trojan Horse      | Cyber bulley .     |

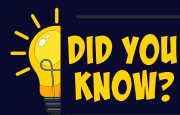


# 9

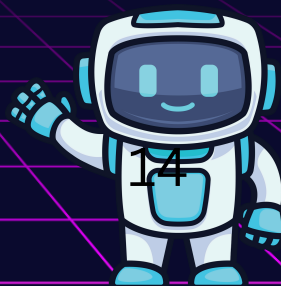
## ARTIFICIAL INTELLIGENCE



AI stands for Artificial Intelligence, which is a set of technologies that allow computers to perform tasks that typically require human intelligence. AI uses algorithms, data, and computational power to simulate human intelligence.



John McCarthy (1927-2011) is known as the "father of artificial intelligence".





## FEATURES OF ARTIFICIAL INTELLIGENCE :

1. **Machine Learning:** AI systems can learn from data and improve their performance over time without being explicitly programmed.
2. **Natural Language Processing (NLP):** AI can understand, interpret, and respond to human language, enabling communication with users in a more natural way.
3. **Computer Vision:** AI can analyze and interpret visual information from the world, allowing machines to recognize objects, faces, and scenes.
4. **Automation:** AI can automate repetitive tasks, increasing efficiency and freeing up human resources for more complex activities.
5. **Decision Making:** AI can analyze large datasets to assist in decision-making processes, providing insights and recommendations based on data trends.
6. **Robotics:** AI is integrated into robotics, enabling machines to perform tasks in various fields, from manufacturing to healthcare.
7. **Predictive Analytics:** AI can forecast future trends and behaviours by analyzing historical data, helping businesses make informed decisions.
8. **Personalization:** AI can tailor experiences and recommendations based on individual user preferences and behaviors, enhancing user engagement.
9. **Problem Solving:** AI can solve complex problems by applying algorithms and computational techniques to find optimal solutions.
10. **Adaptability:** AI systems can adapt to new information and changing environments, allowing them to remain effective over time.



**6 G** TECHNOLOGY IS ESSENTIAL FOR ADVANCING COMMUNICATION ,SUPPORTING ECONOMIC GROWTH , FOSTERING INCLUSIVITY, AN ADDRESSING SUSTAINABILITY CHALLENGES IN OUR INCREASINGLY DIGITAL WORLD.



### Check Your Knowledge

1. What is 6G technology expected to provide?
  - a) Lower internet speeds
  - b) Higher internet speeds
  - c) No internet at all
  - d) Only text messaging
2. One of the main benefits of 6G is:
  - a) Increased phone bills
  - b) Better video games
  - c) Lower latency for real-time communication
  - d) Fewer devices connected
3. How can 6G technology help remote areas?
  - a) By making phones heavier
  - b) By providing better internet access
  - c) By reducing the number of devices
  - d) By making the internet slower
4. Which of the following technologies will benefit from 6G?
  - a) Only traditional phones
  - b) Virtual reality and artificial intelligence
  - c) Only landline phones
  - d) None of the above
5. What is one goal of 6G technology regarding the environment?
  - a) To use more energy
  - b) To reduce energy consumption
  - c) To produce more waste
  - d) To make devices larger

Answers:

1.b 2. c 3.b 4.b 5.b



# COMPARISON OF FEATURES OF 5G AND 6G NETWORK

| Features              | 5G   | 6G   |
|-----------------------|--|--|
| Peak data rates       | 20Gbps   | ~1 Tbps  |
| Latency               | 1 ms   | Less than 1ms  |
| Area traffic capacity | 10Mb/s/m <sup>2</sup>  | 1Gb/s/m <sup>2</sup>   |
| Frequency bands       | Sub 6GHz<br>mmWave (24-52.6 GHz)   | Sub 6GHz<br>mmWave band<br>Terahertz band (Visible light band)   |
| Connection density    | 1M devices/Km <sup>2</sup>   | 10M devices/Km <sup>2</sup>  |
| Device Services       | Reliable connectivity of devices.  | Physical interaction in real-time scenarios.   |
| Network Type          | SDN, NFV, Slicing  | SDN, NFV, Intelligent cloud, AI-based Slicing. Machine Learning, Deep Learning.  |
| Computing Technique   | Fog Computing, cloud computing   | Quantum Computing, Edge computing  |
| Mobility              | 500 Km/h   | > 700 Km/h   |
| Technology            | D2D communication, Ultra-dense Network, Relaying, Small Cell Access, NOMA. | Visible Light Communication, Quantum Communication, Hybrid Access, Haptic technology, Adaptive Resource Allocation.    |
| Applications          | 360° Video, UHD video, AR, VR, IoT, Smart city, Smart Home.                | Holographic imaging, Haptic communication, Telerobotics, Teledriving, AR/VR/XR, Tele-education, Internet of Everything |





## Unit 4

# ***EXPLORING THE WORLD OF LITERATURE***

# INTERESTING ANALOGIES



An analogy is a comparison between two things to show their similarity. There are different types of analogies.

Here is an example of verbal or word analogy.

Moon is to night as sun is to day.

It can also be written as – moon: night::sun : day

**A. Choose the correct words from the box to complete these analogies.**

Question   Library   Lungs  
Frog   Forest



1. Fish is to gills as human is to \_\_\_\_\_.
2. Page is to book as tree is to \_\_\_\_\_.
3. Declare is to say as ask is to \_\_\_\_\_.
4. Artefacts are to a museum as book is to a \_\_\_\_\_.
5. Slithering is to a snake as hopping is to a \_\_\_\_\_.

**B. Complete the following analogies. Choose words from the box.**

year   write   gulp  
school   stop

1. days : week :: months : \_\_\_\_\_
2. comma : pause :: period : \_\_\_\_\_
3. wolf : pack :: fish : \_\_\_\_\_
4. shovel : dig :: pen : \_\_\_\_\_
5. nibble : bite :: sip : \_\_\_\_\_

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

SUNDAY



# GENRES OF LITERATURE

Different types of writing such as stories, poems, and plays, can be sorted into groups called genres. Each genre has its own topics and ways of telling a story. Even though genres might overlap in works of fiction from time to time, there are many well known works that fall under broad categories.

## MATCH THE DESCRIPTION TO THE CORRECT GENRE:

### WORK OF FICTION

1. Rick Riordan's Percy Jackson and the Olympians
2. Patty Jenkins' Wonder Woman
3. Agatha Christie's And Then There Were None
4. Nelson Mandela's Long Walk to freedom
5. Gary Paulsen's hatchet

### GENRE

- i. Autobiography
- ii. Mystery
- iii. Mythopoeia
- iv. Superhero
- v. Adventure

### Homographs

Words that are spelt the same but different meanings, and can often have different pronunciation.

Example :

BOW



### Homonyms

Words that are pronounced the same as well as spelt the same but have different meanings.

Example :

WATCH



### FACTICKLE

Graphic novels are especially popular among kids and teens. They are like comics with more depth and story. Some of the famous examples are Dairy of a Wimpy kid and girl on fire





13

# GREAT AUTHORS OF HISTORY

Throughout history, great authors have shaped the landscape of literature and thought, leaving an indelible mark on culture and society.



**MAHATMA GANDHI**

**Book**

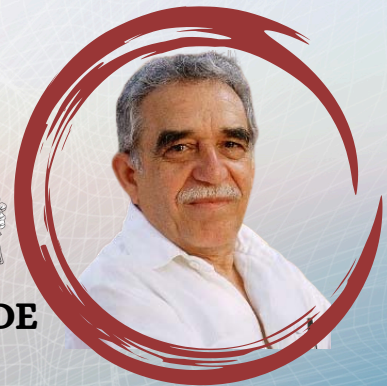


**THE STORY OF MY EXPERIMENT WITH TRUTH**

**Book**



**ONE HUNDRED YEARS OF SOLITUDE**



**GABRIEL MARQUEZ**



**VIKRAM SETH**

**Book**



**THE GOLDEN GATE**

**Book**



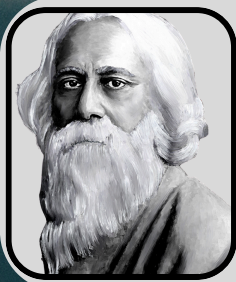
**ADVENTURE OF HUCKLEBERRY FINN**



**MARK TWAIN**



Here are some great Indian authors you might find interesting:

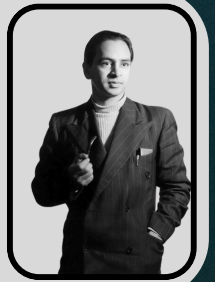


## RABINDRANATH TAGORE

A poet, playwright, and novelist, he was the first non-European to win the Nobel Prize in Literature in 1913. His works like "Gitanjali" are celebrated worldwide.

## R.K NARAYAN

He Known for his simple yet profound storytelling, Narayan is famous for his novels set in the fictional town of Malgudi, such as "Swami and Friends" and "The Guide."



## MUNSHI PREMCHAND

He is called the "Upanyas Samrat " He wrote in Hindi and Urdu and some of his work remains an inspiration for generation to follow.

## ISMAT CHUGHTAI

A pioneering Urdu writer, she is known for her bold themes and feminist perspective, with notable works like "Lihaaf" (The Quilt).



## CHETAN BHAGAT

A contemporary author popular for his novels aimed at young adults, such as "Five Point Someone" and "2 States."

## DO YOU KNOW..?

RUSKIN BOND is an Indian author of British origin who is reputed with the large number of children's literature and novels. His collection artery still grow in dehra won him the prestigious Padma Shree award





# Unit 5

# ***SPORTS***



# OFF BEAT



Also known as kick volleyball, this sport is played between two teams of two to four players in each. The players use their feet, knees, chest and head instead of hands to move the ball around. The ball is made of rattan, a natural material or from synthetic fibre.



Contestants run down a steep hill chasing after a cheese wheel. The first person to reach the finish line at the bottom wins the cheese wheel.



It is a team sport similar to hockey with players using cycles with a single wheel, with ice-hockey sticks and a ball to play. A team is made up of five players.



A sport inspired by the Harry Potter book series. It is played by two teams of seven players each, using broomsticks. It is played on a hockey rink-sized pitch.

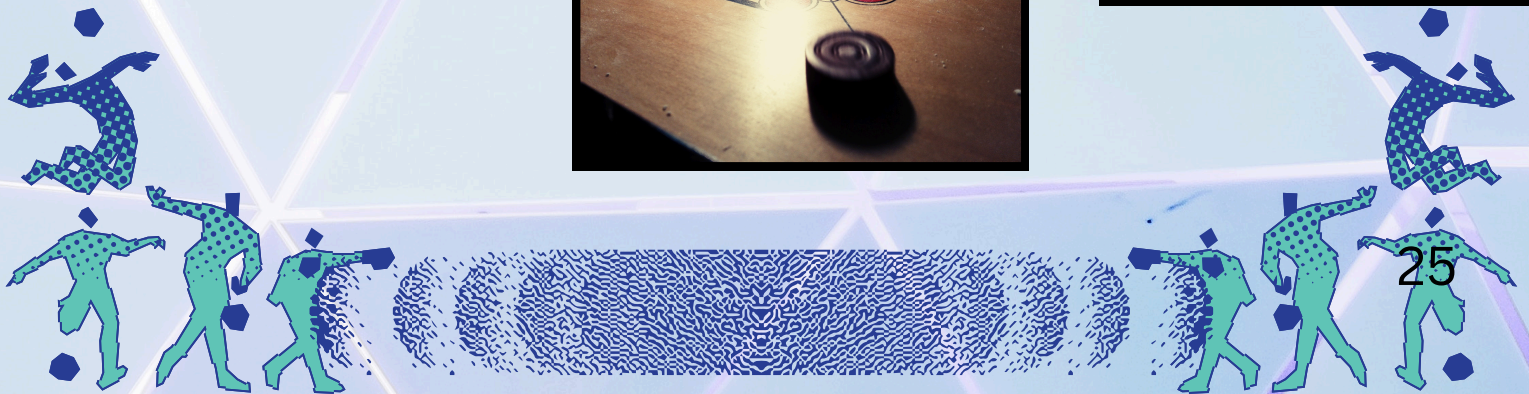
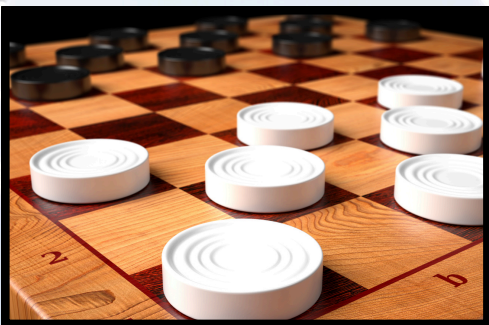
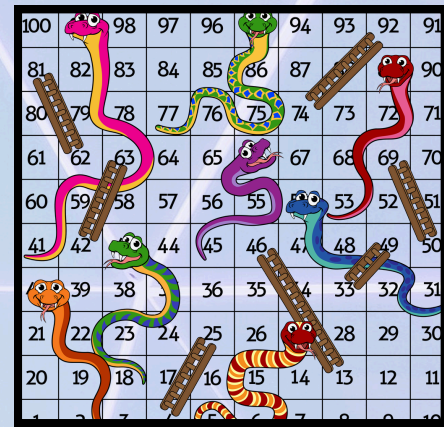


It is a contest in which male competitors race with each of them carrying a female teammate. The objective is for the males to carry the females through a special obstacle track in the fastest time. It originated in Finland.



# INDOOR GAMES

- Chess - A strategic board game for two players.
- Twister - A game involving balancing on coloured circles.
- Snakes and Ladders - A dice game on a board with snakes and ladders.
- Checkers - A two-player strategy game on a checkered board.
- Carrom - A tabletop game of flicking disks into pockets.
- Chinese Football - A strategic game played on a flat board with pieces that represent players. It's a game enjoyed by 2 players or teams.



# Games and Players



How many players are there in each of these games ?

## Games

1. Baseball
2. Basketball
3. Billiards (Snookers)
4. Boxing
5. Bridge
6. Chess
7. Cricket
8. Croquet
9. Water polo
10. Hockey
11. Lacrosse
12. Netball
13. Polo
14. Rugby
15. Volleyball
16. Badminton
17. Football
18. Table Tennis

## Players

- (A) 6  
(B) 2 or 4 or 6  
(C) 4  
(D) 7  
(E) 10  
(F) 11  
(G) 15  
(H) 1  
(I) 1 or 2  
(J) 2  
(K) 5  
(L) 9  
(M) 2 or 4  
(N) 15





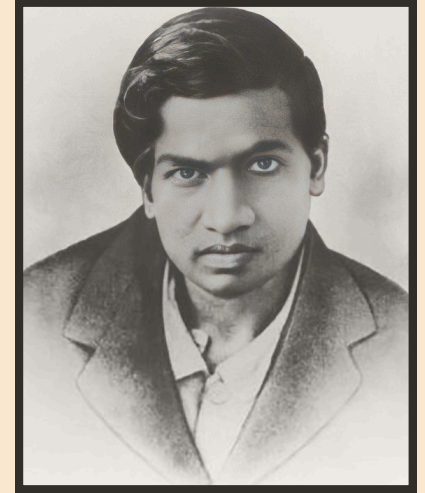


# Unit 6

# ***LIFE SKILLS***

Ramanujan is considered to have contributed immensely to modern Mathematics.

Complete some of the life-changing events of this legendary mathematician that inspire us even today.



1. Srinivasa Ramanujan was born on \_\_\_\_\_ in the town of \_\_\_\_\_, Tamil Nadu. He started his schooling in the year \_\_\_\_\_. Initially, he didn't like school but soon he started to excel in academics, especially Mathematics. He proved to be a brilliant student and won several academic awards.

2. Ramanujan had no formal training in Mathematics. Yet, at the age of 13, he could understand advanced trigonometry and came up with his own theorems. In class 7, he had the ability to teach students up to graduation. By the age of \_\_\_\_\_ he had compiled around \_\_\_\_\_ results.

3. In 1914, Ramanujan went to England and worked alongside \_\_\_\_\_ an English mathematician. Once Hardy went to meet Ramanujan and told him that he came in a taxi which had the number 1729. He described the number as 'rather a dull one'. But Ramanujan insisted that it was a very interesting number and explained that it is the smallest number that can be expressed as the sum of two cubes in two different ways. It is the sum of the cubes of 10 and 9 and also the sum of the cubes of 12 and 1. Thus, the number 1729 is known as \_\_\_\_\_ or Taxicab number.

4. Ramanujan's work was first published in the journal of the \_\_\_\_\_. The first problem that he asked the readers of the journal to find the solution, was the problem.

## HELP BOX

- Indian Mathematical Society
- 1982
- 32
- 3,900
- Erode
- Ramanujan-Hardy number
- December 22, 1887
- GH Hardy



# 19

## TEAMWORK & COLLABORATION



The key difference between collaboration and teamwork is that whilst teamwork combines the individual efforts of all team members to achieve a goal, people working collaboratively complete a project collectively.

Teamwork and collaboration are active learning strategies in which students work and learn together in small groups to accomplish shared goals. Working in teams assists students in developing their problem solving, communication, and critical thinking skills, and allows them the opportunity to work with and learn from their peers.

### MATCH THE FOLLOWING



**Teamwork**

**A**

1. Teamwork
2. A good team member
3. Collaboration
4. Communication
5. Leadership

**B**

- A. Helps everyone to share ideas
- B. Working together as a group
- C. Actively participating in tasks
- D. Listening to others' ideas
- E. Guides and supports the team

**ANSWERS:**

1.B 2.C 3.A 4.D 5.A



# PROBLEM SOLVING

Test your IQ by solving the following:



1. Four people shake hands with each other. What is the total number of handshakes ?

a.2      b.6      c.4      d. 8

2. The day before the day before yesterday is four days after Saturday. Today is

-----.

a. Tuesday   b. Thursday   c. Saturday   d. Monday

♥ MONDAY  
 ♠ TUESDAY  
 ☆ WEDNESDAY  
 ♣ THURSDAY  
 ♥ FRIDAY  
 ✿ SATURDAY  
 ☀ SUNDAY

3. If  $A+A+A = BA$ , then the values of A and b are respectively.

a.6 and 1   b. 1 and 6   c. 5 and 1   d. 1 and 5.

4. Nitin, Ramesh and Rahul are three brothers. The following statements are all true. Nitin is the oldest. Ramesh is not the oldest. Rahul is not the youngest. Tick the name of the youngest brother.

a.Nitin   b.Ramesh   c.Rahul   d.None of these

• Answer

1.b  
 2.c  
 3.d  
 4.b

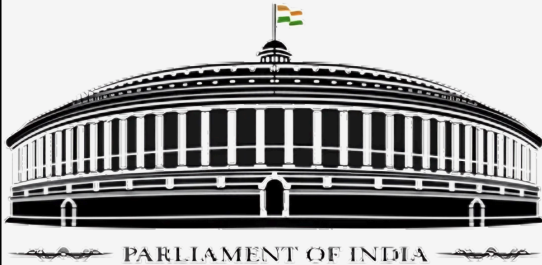
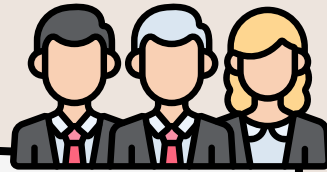
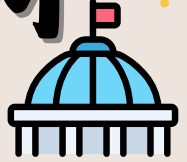




# Unit 7

# ***OUR WORLD***

India has a parliamentary system of governance, which is based on the British model.



PARLIAMENT OF INDIA

1. **Parliamentary Democracy:** India is a democratic republic where the President is the constitutional head of the state, while the Prime Minister is the executive head. The Prime Minister is elected by the majority party or coalition in the Lok Sabha (the lower house of Parliament).



2. **Judiciary:** India has an independent judiciary, with the Supreme Court at its apex. The judiciary interprets the Constitution, resolves disputes, and protects the fundamental rights of citizens.



ELEFANT  
Bahujan Samaj Party



HAND  
Indischer Nationalkongress



HAMMER UND SICHSEL MIT STERN  
Communist Party of India (Marxist)



LOTUSBLÜTE  
Bharatiya Janata Party



ÄHREN UND SICHSEL  
Communist Party of India



UHR  
Nationalist Congress Party



PFLANZE (Jora Ghas Phul)  
All India Trinamool Congress

3. **Political Parties:** India has a multi-party system, with numerous political parties representing a wide range of interests and ideologies. The two major parties are the Bharatiya Janata Party (BJP) and the Indian National Congress (INC).

IN CASE YOU  
MISSED IT...

**Multi-Party System:** India has a multi-party political system, allowing for a wide range of political parties to contest elections and represent diverse interests in the country.



# WONDERS OF THE WORLD

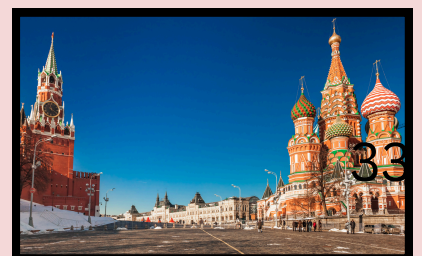
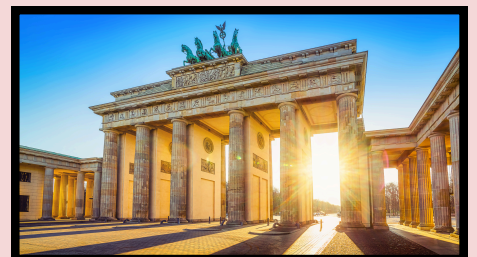
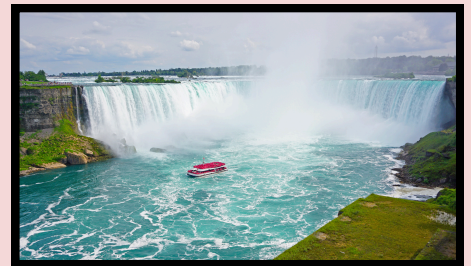
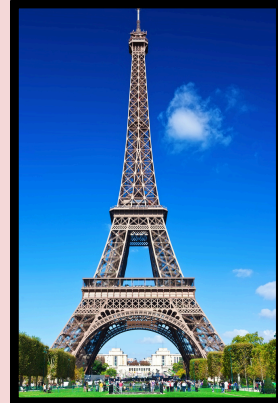


Here we have some famous places/ structures of the world.  
Find their location from the Clue Box given.

## PLACE

## Location

- |                                      |          |
|--------------------------------------|----------|
| 1. Big Ben                           | 1.-----  |
| 2. Eiffel Tower                      | 2.-----  |
| 3. Niagara Falls                     | 3.-----  |
| 4. India House                       | 4.-----  |
| 5. Kremlin                           | 5.-----  |
| 6. Leaning Tower                     | 6.-----  |
| 7. Pentagon                          | 7.-----  |
| 8. Pyramid                           | 8.-----  |
| 9. Sphinx                            | 9.-----  |
| 10. Vatican Gardens                  | 10.----- |
| 11. Wall Street                      | 11.----- |
| 12. White Hall                       | 12.----- |
| 13. White House                      | 13.----- |
| 14. Red Square                       | 14.----- |
| 15. Buckingham Palace                | 15.----- |
| 16. Quetzalcoatl Pyramid             | 16.----- |
| 17. Rock cut temple of Mahabalipuram | 17.----- |
| 18. Shanghai City                    | 18.----- |
| 19. St. Petet's Square               | 19.----- |
| 20. Berlin                           | 20.----- |



### HELP BOX

London, Paris, Moscow , Washington DC,  
Egypt, Virginia USA, New York, Pisa, London,  
London, London, Moscow ,Rome, Egypt, US-  
Canada border, Vatican City , Germany,  
Mexico , India, China.



# Unit 8

## ***ALL AROUND US***



## CELEBRITIES AT SOCIAL SERVICES

In India, many celebrities are deeply involved in social service activities, using their fame and resources to support various causes such as education, healthcare, poverty alleviation, women's rights, and more. Their efforts not only raise awareness but also provide significant financial and practical support to those in need. Here's an overview of some well-known Indian celebrities actively contributing to social services:



### Amitabh Bachchan

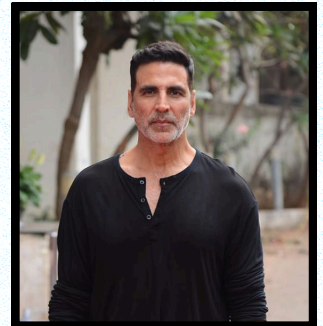
**Cause:** Education, Health, Rural Development

Amitabh Bachchan is known for his philanthropic work, especially in the fields of health and education. He is associated with several charitable initiatives, including Project Nanhi Kali, which focuses on educating underprivileged girls in India. He has also supported Polio Eradication campaigns and various disaster relief efforts.

### Akshay Kumar

**Cause:** Health, Disaster Relief, Military Support

Akshay Kumar is involved in several charitable initiatives, including supporting the families of soldiers who have died in combat. He also supports healthcare through the Akshay Kumar Foundation, focusing on providing sanitation facilities and clean drinking water to villages. Akshay has also made significant donations towards COVID-19 relief efforts.



### Deepika Padukone

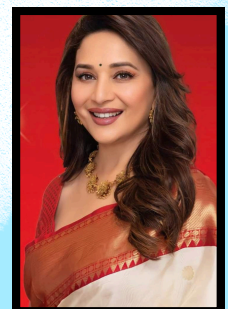
**Cause:** Mental Health, Women's Empowerment

Deepika Padukone is a vocal advocate for mental health awareness and runs the Live Love Laugh Foundation, which aims to reduce the stigma around mental health and help individuals cope with depression. She is also involved in supporting causes related to women's empowerment.

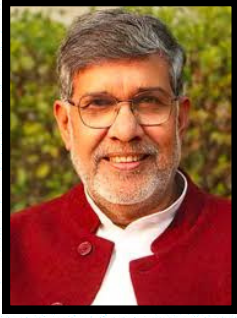
### Madhuri Dixit

**Cause:** Health, Education

Madhuri Dixit, through her Madhuri Dixit Nene Foundation, focuses on healthcare and education initiatives for underprivileged children and women. She has been involved in charity projects that support child health, education, and women's welfare.







## **Kailash Satyarthi**

**Cause: Child Rights, Education**

Kailash Satyarthi, a Nobel Peace Prize laureate, has dedicated his life to eradicating child labour and promoting education for every child. His Bachpan Bachao Andolan (Save Childhood Movement) has helped rescue thousands of children from child labor, trafficking, and exploitation, and he continues to advocate for children's rights globally.

## **Priyanka Chopra Jonas**

**Cause: Health, Education, Women's Rights**

Priyanka Chopra is an advocate for women's rights and gender equality. She works with the UNICEF as a Goodwill Ambassador and focuses on issues like child rights and education. Priyanka has also supported initiatives like The Priyanka Chopra Foundation for Health and Education, which focuses on the empowerment of underprivileged women and children.



## **Oprah Winfrey**

**Cause: Education, Poverty, Empowerment of Women and Children**

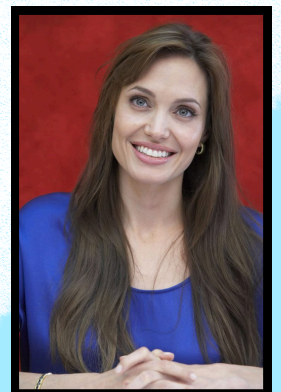
Oprah Winfrey has made substantial contributions through her Oprah Winfrey Foundation and Oprah's Angel Network, supporting education, poverty alleviation, and women's rights globally. She has also provided scholarships to students and supports various charities dedicated to children's welfare.



## **Angelina Jolie**

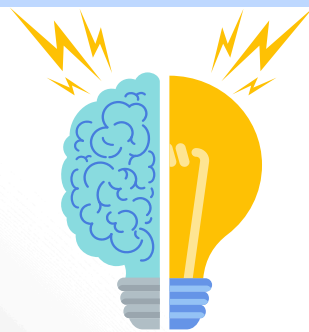
**Cause: Refugee Rights, Humanitarian Aid**

As a UNHCR Goodwill Ambassador, Angelina Jolie has dedicated much of her time to advocating for refugees and displaced persons. Her humanitarian efforts take her to conflict zones to raise awareness and deliver aid. She also founded the Jolie-Pitt Foundation, which supports global humanitarian work, particularly in the areas of health, education, and human rights.





# Brain Teasers



1. Find the missing number which will complete the given series.

4, 8, 24, 96, 480, ?

- (A) 2400 (B) 960 (C) 1920 (D) 2880

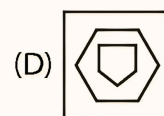
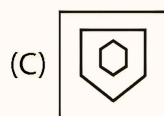
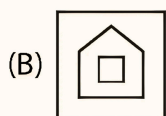
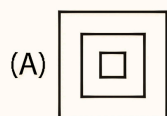
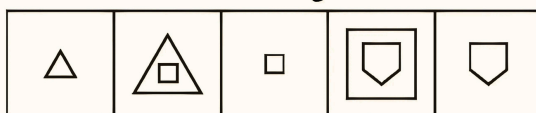
2. Find the missing number, if a certain rule is followed either row-wise or column-wise.

- (A) 7  
(B) 8  
(C) 9  
(D) 5

|    |     |     |
|----|-----|-----|
| 5  | 4   | 6   |
| 4  | ?   | 5   |
| 81 | 144 | 121 |

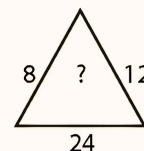
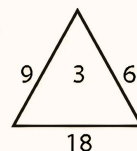
3. Select a figure from the options which will continue the same series as established by the Problem Figures.

Problem Figures



4. Find the missing number, if same rule is followed in both figures.

- (A) 6 (B) 4  
(C) 5 (D) 8



5. Select a term from the options which will continue the given series.

NE, QI, TM, WQ, ?

- (A) ZV (B) YU (C) ZU (D) YV

6. Find the missing letter, if a certain rule is followed either row-wise or column-wise.

- (A) W (B) Y  
(C) X (D) Z

|   |   |   |
|---|---|---|
| J | K | N |
| B | C | F |
| U | V | ? |

7. Select the term from the options which will continue the given series.

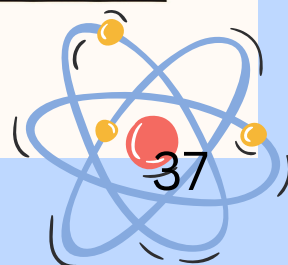
KR6, MP8, ON12, QL18, ?

- (A) TJ24 (B) SI26 (C) SI24 (D) SJ26

8. Find the missing number, if a certain rule is followed either row-wise or column-wise.

- (A) 7 (B) 8  
(C) 11 (D) 9

|   |     |     |
|---|-----|-----|
| 1 | 9   | ?   |
| 2 | 12  | 14  |
| 3 | 117 | 105 |

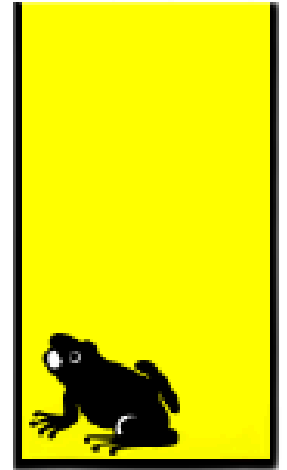


9.  = 15 computers  
 = ?

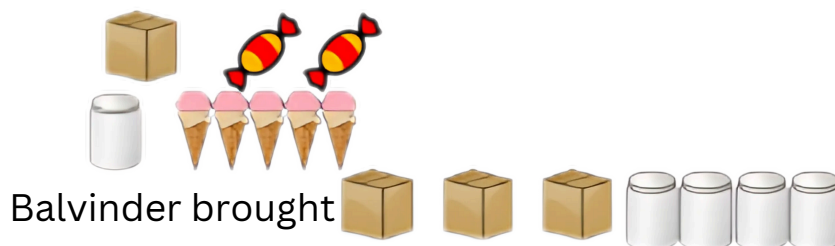
10. Divya rolls a cube which has following letters on each face.

**A U J F V H**

11. What is the fraction of symmetric (either horizontal or vertical) letters on the cube? A frog has fallen into a ditch which is 13 meter deep. Each day frog climbs 2 meter and than fall back by 1 meter. In how many days will frog reach the top?



12.



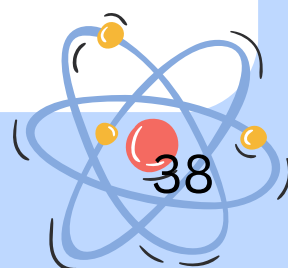
How many less toffees than ice-creams did he buy?

13. Table shows description of four Scanners.

| Printer   | Specification                |
|-----------|------------------------------|
| Scanner 1 | Scans 30 pages per minute    |
| Scanner 2 | Scans 2 pages per second     |
| Scanner 3 | Scans 26 pages per minute    |
| Scanner 4 | Scans 1 page every 2 seconds |

Which is slowest ?

14. There are 44 employees in an office, who works in three shifts. The first group of 1 employees work from 9:00 AM to 11:00 AM. The second group of 15 employees work from 10:00 AM to 12 noon. And third group of 13 employees work from 11:00 AM to 12 noon. If there are only 9 computers, during what time, computers are likely to be used most?





# *Current affairs* **Question**

**1. Who is the current President of the United States as of 2024?**

- a) Joe Biden
- b) Donald Trump
- c) Kamala Harris
- d) Barack Obama

**2. Which country recently approved same-sex marriage in 2024?**

- a) India
- b) Thailand
- c) Japan
- d) Australia

**3. What is the name of the reusable rocket built by SpaceX?**

- a) Falcon 9
- b) Starship
- c) New Shepard
- d) Delta IV

**4. Which Indian city introduced the concept of exchanging plastic waste for food vouchers?**

- a) Mumbai
- b) Delhi
- c) Bengaluru
- d) Chennai

**5. Who is known as the 'Missile Man of India'?**

- a) Vikram Sarabhai
- b) Satish Dhawan
- c) APJ Abdul Kalam
- d) Homi Bhabha

**6. What is the capital of Vietnam?**

- a) Manila
- b) Kuala Lumpur
- c) Jakarta
- d) Hanoi

**7. Which country has the Iron Dome air defence system?**

- a) USA
- b) Israel
- c) Russia
- d) China

**8. Who is the current Foreign Minister of India?**

- a) Rajnath Singh
- b) Piyush Goyal
- c) S. Jaishankar
- d) Ajit Doval

**9. Which is the world's largest operating system as of 2024?**

- a) Windows
- b) iOS
- c) Android
- d) Linux

**10. Which country hosted the 2024 Summer Olympics?**

- a) Tokyo
- b) Paris
- c) Los Angeles
- d) Beijing



**11. Who is the current President of India as of 2024?**

- a) Ram Nath Kovind
- b) Draupadi Murmu
- c) Pranab Mukherjee
- d) A.P.J. Abdul Kalam

**12. Which country won the 2024 FIFA Men's World Cup?**

- a) Brazil
- b) France
- c) Argentina
- d) Germany

**13. What is the theme for World Environment Day 2024?**

- a) Beat Plastic Pollution
- b) Ecosystem Restoration
- c) Air Pollution
- d) Biodiversity Conservation

**14. Which Indian state launched the 'Mukhyamantri Ladli Behna Yojana' for women's welfare?**

- a) Uttar Pradesh
- b) Madhya Pradesh
- c) Rajasthan
- d) Gujarat

**15. Which space agency successfully landed a spacecraft on the moon's South Pole in 2024?**

- a) NASA
- b) ISRO
- c) ESA
- d) CNSA

**16. Which city is hosting the World Government Summit 2025?**

- a) Paris, France
- b) Dubai, UAE
- c) New Delhi, India
- d) Beijing, China



**17. Which country recently announced export controls and increased tariffs on certain American imports in retaliation for U.S. tariffs?**

- a) Russia
- b) China
- c) India
- d) Brazil

**18. In which country did a gunman open fire at an adult education centre in Örebro, resulting in the deadliest mass shooting in the country's history?**

- a) Norway
- b) Sweden
- c) Finland
- d) Denmark

