

ADHERES TO
★★ NATIONAL ★★
EDUCATION POLICY
2020
MIDDLE STAGE



General Knowledge

GK

INSIGHT

with Life Skills and Values

6





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with Life Skills and Values

6

by

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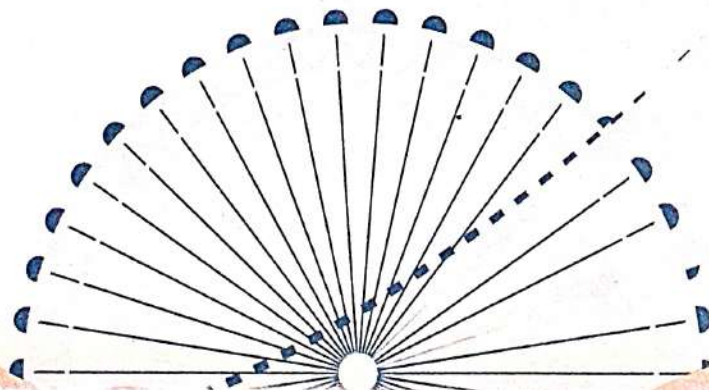
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New Edition

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Nitin Kumar

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PREFACE



Knowledge and awareness are constantly evolving, dynamic phenomenon. In order to sensitise the minds of young learners regarding this aspect of knowledge, we have provided a series of eight General knowledge books "GK INSIGHT" for Classes 1 to 8.

Based on the NEP 2020, the series covers the general knowledge quotient of a spectrum of curricular as well as extra-curricular domains for learners which lay emphasis on 21st Century Skills.

The books are divided into eight units—the wonderful nature, language and literature, the amazing India, the world around us, sports and entertainment, science and technology, values and life skills and train your brain.

These units present students with a wide variety of tasks pertaining to real life and encourage them to be curious and aware of the world around them. Each unit page begins with the listing of the Learning skills that learner will acquire upon the completion of each unit. We have tried to present content of each topic in simple and lucid language, so that learning is felt interesting than burden.

Salient Features

- » The contents of the series is comprehensive and divided into eight different units (I to VIII) pertaining different themes.
- » Unit-wise contents is given with NEP Learning Skills and SDGs for every two units.
- » A sheet of 17 Sustainable Development Goals (SDGs) which are adopted by the United Nations is attached at the end of the books.
- » High-quality pictures and creative activities of the series keep the learners actively interested in learning.
- » Fact File presents interesting facts and information related to the topic.
- » Hint Box provides hints to lead the way for further learning.
- » Quick Tests for self-evaluation assess the understanding level of the learners.
- » Two Assessment Papers for half-yearly exam and annual exam are given to test the learning skills.
- » Olympiad Model Paper is attached in each book to prepare students for competitive examinations.
- » Answer Sheet serves the dual purpose of helping out learners and teachers and enables them to crosscheck their task.

This updated series of General Knowledge encourage learners to go beyond their curiosity to construct knowledge through self-learning and improves their understanding, analyzing and problem solving skills.

[Note : Your Feedback, valuable suggestions and comments are always welcome.]

—Publishers

21st CENTURY SKILLS

LITERACY SKILLS



Information



Media



Technology
(Digital Resources)

LEARNING SKILLS (THE FOUR C'S)



Critical Thinking



Creativity



Collaboration



Communication

LIFE SKILLS



Flexibility



Leadership



Productivity



Social Skills
(Sensitivity)



Initiative



Health
& Well Being



Unit - 1



The Wonderful Nature

- ♦ Mammals
- ♦ Don't Go By the Name
- ♦ Largest Fastest Tallest...



Language & Literature

This unit presents vocabulary, etymology and literature in an interesting way.

COGNITIVE SKILLS

SUBJECT INTEGRATION

The Wonderful Nature

This unit covers the magical realm of flora and fauna.

Fact File

It has spin-off facts about each topic or theme.

Unit - 2



Language & Literature

- ♦ Acronyms
- ♦ A Tempest in a Teapot
- ♦ Books and Authors

Fact File

The first newspaper in India was James Augustus Hicky's Bengal Gazette or Calcutta General Advertiser published in 1780 in Calcutta (now Kolkata).

The World Around Us

This unit takes the students to the journey of the world and its parts.

Unit - 3



The Amazing India

- ♦ History of India
- ♦ Indian Symbols
- ♦ The State Crossword
- ♦ National Heroes
- ♦ Indian Awards



INFORMATION SKILLS

INDIAN ETHOS

The Amazing India

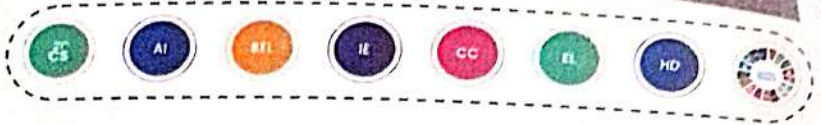
This unit include activities to evoke sense of wonder and pride of our country.

Unit - 4

The World Around Us

- ♦ Famous Landmarks
- ♦ Old Places New Names
- ♦ Major International Organizations
- ♦ Oceans and Seas





Unit - 1



The Wonderful Nature

- ★ Mammals
- ★ Don't Go By the Name
- ★ Largest Fastest Tallest...



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The Amazing India

- ★ History of India
- ★ Indian Symbols
- ★ The State Crossword
- ★ National Heroes
- ★ Indian Awards



INFORMATION SKILLS

The Amazing India

This unit include activities to evoke sense of wonder and pride of our country.

Unit - 4

The World Around Us

- ★ Famous Landmarks
- ★ Old Places New Names
- ★ Major International Organizations
- ★ Oceans and Seas



INDIAN ETHOS

PHYSICAL SKILLS

Unit - 5

Sports & Entertainment

- ♦ National Games of Countries
- ♦ Grand Slams
- ♦ Asian Games
- ♦ Sport Stars
- ♦ Sports Quiz
- ♦ Musical Notes

Science & Technology

This unit make the students aware of different scientific achievements and technological developments.

LITERACY SKILLS

Unit - 6

Science & Technology

- ♦ Tell Me Why?
- ♦ Common Ailments
- ♦ Therapies and Cures
- ♦ Measuring Instruments
- ♦ Famous Scientists
- ♦ Exploring Space
- ♦ Heavenly Bodies

Sports & Entertainment

Activities covered in this unit make the students aware of rules and records in different sports and gain knowledge about the field of art and entertainment.

Hint Box

Unani, Homeopathy, Acupuncture, Ayurveda, Naturopathy

Hint Box

It has answers in shuffled form to help the students.

LIFE SKILLS

Unit - 7

Values & Life Skills

- ♦ Be Right, Do Right
- ♦ Gesture Communication
- ♦ Major Religions
- ♦ Body Language
- ♦ Yoga

Train Your Brain

The activities covered in this unit brush up the mind of students and help them to develop their logical thinking, reasoning and problem-solving skills.

PROBLEM SOLVING

Values & Life Skills

This unit sensitizes the learners towards self awareness, safety and value building.

Unit - 8

Train Your Brain

- ♦ Analogies
- ♦ Brain Teasers
- ♦ Co-relation
- ♦ Mathmagic
- ♦ Logical Approach





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Unit - 1



Unit - 2



The Wonderful Nature

- ✿ Mammals
- ✿ Don't Go By the Name
- ✿ Largest Fastest Tallest...
- ✿ Who am I?
- ✿ Fruits & Vegetables
- ✿ Plants that eat Insects
- ✿ Our Natural Doctors

Language & Literature

- ✿ Acronyms
- ✿ A Tempest in a Teapot
- ✿ Books and Authors
- ✿ The World of Books
- ✿ "Quotable Quotes"
- ✿ Famous Literary Characters
- ✿ The Daily News



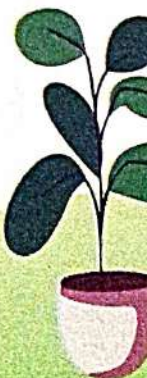
LEARNING SKILLS/OUTCOMES AS PER NEP 2020

- HD Observation
- HD Curiosity
- 21st CS Information

For Unit -1

- HD Cognitive
- 21st CS Information
- 21st CS Communication
- CC Subject Integration

For Unit -2



Mammals are those animals which give birth to their young ones. They are found on land, air and water.



MAMMALS



Identify the following animals and write their names with the help of "Hint Box" :



1 This is an extremely intelligent animal. Scientists have taught them to solve puzzles and use simple tools. It has even been taught to talk to people through sign language.

2 This mammal has a pouch on its body for carrying its young ones. Even Koalas, and Possums have pouches. Such animals are called Marsupials.



3 It is the largest member of the cat family. Its roar is so loud that it can be heard more than a mile away.

4 It is a mammal and not a bird. It has hair and no feathers. It also does not have a beak or bill. It is the only mammal that can fly.



5 It is the lightest mammal in the world. It is a tiny rodent that looks like a miniature mouse. It weighs approximately 1.8 grams only.

6 This mammal appears white because of its thick fur. Below its furrycoat, its skin is actually black.



7 It cannot breathe through its mouth. It has a blowhole on top of its head for breathing while it swims in water.

8 This animal is the world's tallest living land animal. It is a herbivore, and loves to eat the leaves of the Acacia tree.



Hint Box

Polar Bear, Giraffe, Bat, Etruscan Shrew, Chimpanzee, Tiger, Kangaroo, Dolphin

Names can be misleading. Many animals are actually not what they are called.

2

Don't Go BY THE NAME

Given below are the names of some animals. Fill in the boxes with the right answer :



1. The flying fox is not a fox but a

2. The Komodo dragon is not a dragon but a

3. The tufted titmouse is not a mouse but a

4. The koala bear is not a bear but a

5. The killer whale is not a whale but a

6. The seahorse is not a horse but a

7. The prairie dog is not a dog but actually a

8. The American buffalo is not a buffalo but a



Hint Box

Lizard, Fish, Bird, Bat, Rodent, Dolphin, Bison, Marsupial

Fact File

A marsupial is a mammal that gives birth to an underdeveloped young one that is then carried in the mother's pouch.



Find the missing letters in the names of these animals :

1 The tallest land animal is the ____ FF__. Their tall necks have evolved in such a manner that they can reach the leaves at the topmost parts of a tree.



2 The animal with the most number of legs is the ____ LL _____. Its name comes from the Latin words 'mille' meaning 'thousand' and 'pes' meaning 'foot'. Some species have up to 750 legs!

3 The fastest land animal is the ____ EE _____. It can run at speed between 112 and 120 km/h. That's as fast as a car. They run so fast that they can out-run their prey which are gazelles, impalas, etc.



4 The Peregrine _____ N is the fastest flying bird. They can dive at speed of up to 325 km/h when they swoop in on a prey.

5 The largest animal in the world is a _L _____ L_. Its brain is four times the size of ours and it can grow to thirty times the size of an African elephant!



6 The Wandering _____ SS has the largest wingspan of any living bird, ranging between 8 to 12 feet. They are commonly found on the east coast of New Zealand. They have a lifespan of over 50 years.

7 The _____ H is the largest bird in the world. In spite of its size, it can run up to speed of 70 km/h, the fastest land speed of any bird.



Fact File

Dolphins have a unique sleeping style. They sleep with one of their eyes closed. With the other open eye, they keep a look out for any danger.



Who Am I?

Identify these animals by their unusual behaviour :

1. I am the largest crocodile in India but I eat the least amount of food everyday.

2. I am a spiny, insect-eating animal. I detect worms under the ground by using my highly developed sense of smell.

3. I am the largest flightless bird of South America. Although I cannot fly, I have large wings that I use as sails while running.

4. I am a tree-living animal. When I hibernate, my body temperature can drop from 37°C to 5°C and my body weight can drop by 40 per cent.

5. I belong to the cat family. I can be identified by the prominent black tufts of hair on the tips of my ears. My large padded paws help me to walk easily on snow.

6. I am known for my long periods of hibernation. In winter, I go into a deep sleep that can last over six months, waking only occasionally to eat or drink.



Fact File

Leopard can run for hours at a speed of 56 kmph.



Hint Box

Squirrel, Dormouse, Lynx, Saltwater Crocodile, Hedgehog, Rhea

Fruits and vegetables constitute an important part of our diet. We eat them daily but do we know all about them?



FRUITS & VEGETABLES

Read the following statements and fill in the blanks to complete them :

1. is made into lanterns on the festival of Halloween¹ and into pies on Thanksgiving Day.²
2. A, also known as the love apple, is a red and juicy fruit.
3. are found in many colours and with different levels of hotness.
4. Beetroot is used in Russia to make a famous red soup called
5. Ginger is a modified
6. The science of growing vegetables is called
7. roots are used in the blending of coffee.
8. The pungency of chillies is due to
9. Most wines are made from
10. Chocolate is made with cocoa powder which is ground from the roasted and fermented leaves of pods.



¹A festival celebrated on 31st October in some English-speaking countries during which people dress up as ghosts and witches.

²A festival celebrated on the fourth Thursday of November in the United States and Canada.

Hint Box

Cacao, Pepper, Stem, Grapes, Borscht, Pumpkin, Tomato, Capsaicin, Chicory, Olericulture

Plants that trap insects are called insectivorous plants. They are found in places where they cannot get enough nutrients from the soil. They derive nutrients from insects.



Plants that Eat Insects

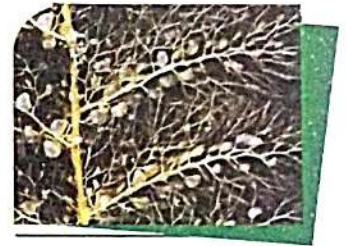


Read the following clues and name the plants with the help of "Hint Box" :



1. The jug-shaped leaves of this plant hang from long tendrils. The inner part of the plant is so smooth that the moment the insect falls in, it is immediately digested by the enzymes.

2. This water plant has little bladders with tiny hairs and trapdoors for water insects. When the insect brushes against these trapdoors, the plant sucks them in immediately.



3. This cobra-like plant has a sweet nectar which attracts insects to its mouth. The mouth acts as a trap. As soon as the insect enters the mouth, it slips to the bottom where it is consumed by the plant.

4. Insects are lured by its jaw-like leaf trap that contains nectar. It snaps at the slightest touch. Once the insect lands on its leaf, the trap immediately closes and the plant secretes juices that dissolve the insect.



5. Its glistening leaves are covered with tentacles that have a sticky fluid. These tentacles envelop the prey and suffocate it within twenty seconds.

6. It gets its name because its leaves ooze drops that make them glisten like butter. These drops contain digestive juices and enzymes. The attracted insects get trapped in the leaves.



Hint Box

Cobra lily, Venus flytrap, Sundew, Butterwort, Bladderwort, Pitcher plant

Many plants have great medicinal value. In the past, they were considered the best source of treatment for different diseases. Hence, they are also called our natural doctors.



OUR NATURAL DOCTORS



Complete the crossword on medicinal plants :

Across (→)

2. The fruit of this plant is full of Vitamin C. It improves digestion and purifies the blood. The oil obtained from the plant is considered beneficial for hair growth.
4. It is known as a miracle plant. Due to its healing and soothing properties, it is used in beauty products and in treating skin ailments. It is believed to be the secret behind Queen Cleopatra's skin and beauty.
5. This herb is used in treating cold, cough and fever. It also helps to soothe insect bites. The powdered leaves are used in tea for their health benefits.

Down (↓)

1. The twig of this plant is chewed to clean the teeth. An ointment prepared from its leaves is effective in healing ulcers, bed sores and wounds. It is also widely used in cosmetic products.
3. This plant has been used for thousands of years to improve memory and treat mental illnesses. The plant is useful in treating skin problems and other ailments too. Oil extracted from the leaves is used in hair products.
6. It is often referred to as 'Indian Ginseng'. It is a key ingredient in Ayurvedic medicine. The roots of this plant are used to repair damaged tissues and treat nervous disorders, asthma and other diseases.



A Tempest in a Teapot

Match the idioms to their meanings. Write the correct letters in the boxes :

1. All that glitters is not gold	<input type="checkbox"/>	(a) A friend who gives you help when you need it, is a true friend.
2. Beggars can't be choosers	<input type="checkbox"/>	(b) To do something when the situation is favourable.
3. A leopard cannot change its spots	<input type="checkbox"/>	(c) To criticize someone for a fault you yourself have.
4. Look before you leap	<input type="checkbox"/>	(d) Someone who seems nice and harmless, but who, in reality, is untrustworthy and wicked.
5. Once bitten, twice shy	<input type="checkbox"/>	(e) It is not possible to change or hide a trait that is a part of you.
6. Rome wasn't built in a day	<input type="checkbox"/>	(f) Making a big thing out of a small issue.
7. Strike when the iron is hot	<input type="checkbox"/>	(g) Great things take time.
8. A pot calling a kettle black	<input type="checkbox"/>	(h) Not everything that looks good is actually good.
9. A friend in need is a friend indeed	<input type="checkbox"/>	(i) When you cannot have exactly what you want, you must accept whatever you get.
10. Hitch your wagon to a star	<input type="checkbox"/>	(j) Once hurt, a person will be cautious about doing it the next time.
11. A wolf in sheep's clothing	<input type="checkbox"/>	(k) Think well about what you wish to do before you do it.
12. Nothing comes of nothing	<input type="checkbox"/>	(l) Aim as high as you can.
13. Making a mountain out of a mole hill	<input type="checkbox"/>	(m) You can accomplish nothing without making an effort.

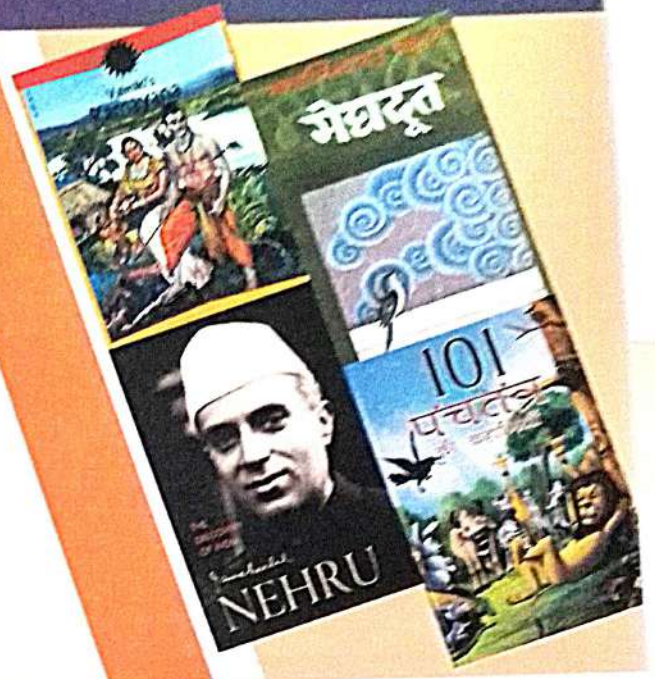


Books and Authors



A. Read the names of the books below and name their authors. Pick the correct answer from the "Hint Box":

1. Ramayana
2. Srikanta
3. Panchatantra
4. Arthashastra
5. Mahabharata
6. Meghaduta
7. Gitanjali
8. The Discovery of India
9. The Guide
10. Gita Govinda



Hint Box

R. K. Narayan, Jawaharlal Nehru, Sarat Chandra Chattopadhyay, Chanakya, Ved Vyasa, Kalidasa, Jayadeva, Rabindranath Tagore, Vishnu Sharma, Valmiki

B. Sometimes, a writer writes a book under another name instead of his/her real name. Such names are called pen names. Here are a few pen names of famous

Pen Names	Real Names	Pen Names	Real Names
Premchand	Dhanpat Rai Shrivastava	Mark Twain	Samuel Langhorne Clemens
Lewis Carroll	Charles Lutwidge Dodgson	George Orwell	Eric Arthur Blair
Bhanu Singha Thakur	Rabindranath Tagore	Boz	Charles Dickens
George Eliot	Mary Ann Evans	Mary Westmacott	Agatha Christie

Books are categorised under many names. They are named according to the subject matter they contain.

11

The World of Books

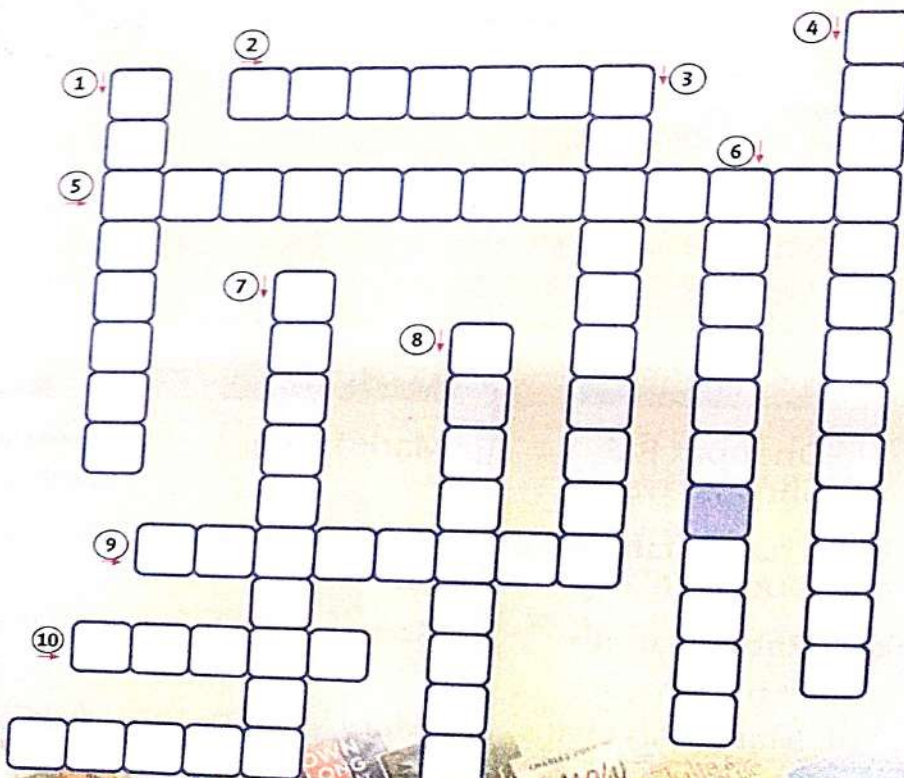
Read the clues to complete the crossword with the names of books :

Across (→)

2. An annual calendar of dates and events.
5. An account of a person's life written by himself or herself.
9. A list of words and phrases used in a particular subject area.
10. A book of maps.
11. A book for writing daily record of events.

Down (↓)

1. An annual reference book with information about the events of the previous year.
3. A dictionary of dated events.
4. A book of articles on many subjects arranged alphabetically.
6. A book for travellers with translation of words and phrases into and from a foreign language.
7. An alphabetical list of words with their meanings.
8. A book organized to show words with similar meaning.





12

QUOTABLE QUOTES



Identify the people who said the following quotes and write their names using "Hint Box":

1
"No great artist ever sees things as they really are. If he did, he would cease to be an artist."

2
"Ask not what your country can do for you, ask what you can do for your country."

3
"Government of the people, by the people, for the people, shall not perish from the earth."

4
"All our dreams can come true, if we have the courage to pursue them."

5
"Animals are my friends ... and I don't eat my friends."

6
"All the world's a stage, and all the men and women, merely players."

7
"Live as if you were to die tomorrow. Learn as if you were to live forever."

8
"Every time you smile at someone, it is an action of love, a gift to that person, a beautiful thing."

9
"I have not failed. I've just found 10,000 ways that won't work."

10
"Democracy does not guarantee equality of conditions- it only guarantees equality of opportunity."

Hint Box

Mahatma Gandhi,
John F. Kennedy,
George Bernard Shaw,
Thomas Alva Edison

Walt Disney,
Mother Teresa,
William Shakespeare,

Oscar Wilde,
Abraham Lincoln,
Irving Kristol,

FAMOUS LITERARY CHARACTERS



Given below are clues about some famous literary characters. Write their names with the help of "Hint Box" :



1. This golden haired little boy met a pilot who had crashed his plane in the Sahara desert. The boy told the pilot that he was from another planet.

2. Alibaba's brother who was killed by the forty thieves in *Alibaba and the Forty Thieves*.

3. In *Gulliver's Travels*, Gulliver's ship is named after this animal.

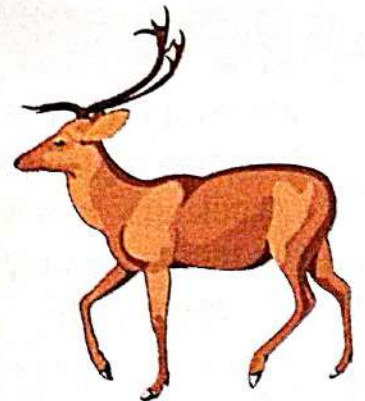
4. A fairy tale character who has a life-span of 300 years.

5. A wandering musician who became a member of Robin Hood's Band of Merry Men.

6. This character possessed the magic lamp in a famous story in the *Arabian Nights*.

7. A character from Charles Dickens's *David Copperfield* who was always in debt.

8. This character created by Sir Arthur Conan Doyle solved the most difficult problems with ease.



Hint Box

Aladdin, Sherlock Holmes, Antelope, The Little Prince, Cassim, Wilkins Micawber, The Little Mermaid, Alan-a-Dale



The Daily News



Match the newspapers published around the globe to the countries in which they are published :

<ol style="list-style-type: none"> 1. Jang 2. Die Welt 3. Le Monde 4. Pravda 5. Daily Mirror 6. Al Ahram 7. The Asahi Shimbun 8. Herald Tribune 9. Hindustan Times 10. La Repubblica 11. Khaleej Times 12. Renmin Ribao 		<ol style="list-style-type: none"> (a) India (b) Pakistan (c) Japan (d) Germany (e) China (f) United States of America (g) Russia (h) France (i) Egypt (j) United Kingdom (k) United Arab Emirates (l) Italy
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Fact File

The first newspaper in India was James Augustus Hicky's Bengal Gazette or Calcutta Advertiser published in 1780 in Calcutta (now Kolkata).



The Daily News



Match the newspapers published around the globe to the countries in which they are published :

1. Jang

2. Die Welt

3. Le Monde

4. Pravda

5. Daily Mirror

6. Al Ahram

7. The Asahi Shimbun

8. Herald Tribune

9. Hindustan Times

10. La Repubblica

11. Khaleej Times

12. Renmin Ribao

(a) India

(b) Pakistan

(c) Japan

(d) Germany

(e) China

(f) United States of America

(g) Russia

(h) France

(i) Egypt

(j) United Kingdom

(k) United Arab Emirates

(l) Italy



Fact File

The first newspaper in India was James Augustus Hicky's Bengal Gazette or Calcutta General Advertiser published in 1780 in Calcutta (now Kolkata).

Quick Test

1

Based on Learning Skills

Tick (✓) the correct option :

1. The flying fox is not a fox but a :
(a) bird (b) rodent (c) bat
2. This animal is the world's tallest living land animal.
(a) Giraffe (b) Tiger (c) Kangaroo
3. Who said, "Animals are my friends... and I don't eat my friends"?
(a) Walt Disney (b) George Bernard Shaw (c) Oscar Wilde
4. The pen name of Charles Dickens is :
(a) George Eliot (b) Lewis Carroll (c) Boz

Fill in the blanks :

1. have a unique sleeping style.
2. A also known as the love apple, is a red and juicy fruit.
3. A dictionary of dated events is called
4. The first newspaper in India was James Augustus Hicky's

Match the following :

- | | |
|-------------------------------|----------------------------|
| 1. Miracle plant | (a) Cassim |
| 2. The Discovery of India | (b) Aim as high as you can |
| 3. Hitch your wagon to a star | (c) Aloe-vera |
| 4. Alibaba's brother | (d) Jawaharlal Nehru |

Identify the following pictures and write their names :



Unit - 3



Unit - 4

The Amazing India

- History of India
- Indian Symbols
- The State Crossword
- National Heroes
- Indian Awards
- India and the Nobel
- Institutions of India
- For the Country
- Women Achievers

The World Around Us

- Famous Landmarks
- Old Places New Names
- Major International Organizations
- Oceans and Seas
- Cities & Rivers
- Sobriquets
- Mountain Peaks
- Pioneers of the World
- Coin and Currency



LEARNING SKILLS/OUTCOMES AS PER NEP 2020

For Units - 3 & 4

- 21st CS Social Skills
- IE Indian Ethos
- 21st CS Information
- 21st CS Leadership



HISTORY OF INDIA

The History of India can be broadly divided into three categories:

Ancient India

This period includes the Indus Valley Civilisation, which was one of the oldest civilisations in the world and spread through the north western part of India. The ancient Vedas were said to have been composed during this age. The prominent rulers of Ancient India were the Mauryas and Guptas in the north, and Pallavas, Pandyas, Chalukyas and Hoysalas in the south.

Medieval India

This period began with the destruction of the Somnath Temple by Mahmud of Ghazni in 1025 A.D. and witnessed several invasions by Muslim rulers. The Mughals were the last and most prominent of the Muslim rulers who ruled during this period.

Modern India

This period witnessed the arrival of European traders, who later went on to rule the country. The British, through many battles and wars, ruled India during the 17th, 18th and 19th centuries. The First War of Independence (1857) and later the Indian Freedom Struggle, led to the Indian independence.

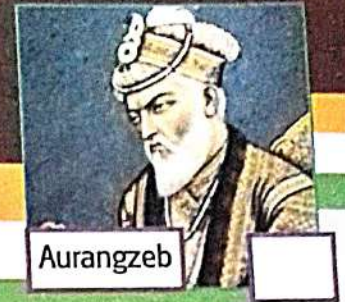
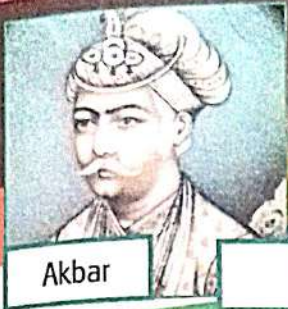
A. Match the people to their time period :

PEOPLE

PERIOD

- | | |
|--------------------------|-------------------------------|
| 1. Ashoka: The Great | (a) British (Modern India) |
| 2. Lord Mountbatten | (b) Portuguese (Modern India) |
| 3. Shah Jahan | (c) Mauryas (Ancient India) |
| 4. Rajaraja I | (d) Mughals (Medieval India) |
| 5. Chandragupta I | (e) Cholas (Ancient India) |
| 6. Afonso de Albuquerque | (f) Guptas (Ancient India) |

B. Rank the following Mughal Emperors, according to their order of succession, starting with 1 as the first:



C. How much do you know about India? Take this quiz to find out:

1. How many Vedas are known to exist?

- (a) 1 (b) 2 (c) 3 (d) 4

2. What is the Indian system of medicine called?

- (a) Ank Ganit (b) Ayurveda
 (c) Homeopathy (d) Jyotish Vidya

3. This state was known as Indrakil in Indian religious texts. What is it called now?

- (a) Meghalaya (b) Tripura (c) Sikkim (d) Manipur

4. Harshavardhana was a famous:

- (a) emperor (b) mathematician
 (c) philosopher (d) poet

5. General Dyer of the British army made this into a historical place known for its bloody massacre.

- (a) Brindavan Gardens
 (b) Nalanda
 (c) Jallianwala Bagh
 (d) Golden Temple



The Republic of India has official national symbols including a flag, an emblem, an anthem and more. All the symbols have an interesting evolution.



INDIAN SYMBOLS

Answer these questions on the development of the Indian symbols :

1. In 1907, the first version of India's National Flag (the Tiranga) was created in Stuttgart, Germany. Who created it?

2. Which Indian freedom fighter is the designer of the flag from which Indian national flag was adopted?

3. The Lion Capital has been adopted as the National Emblem of India. Where was it originally placed?

4. Vande Mataram, the National Song of India, was taken from which novel of Bankim Chandra Chattopadhyay?

5. In which language was Jana Gana Mana, the National Anthem of India, originally written?

6. How many verses of the song Vande Mataram have been adopted as the National Song?

7. How many annas made an Indian rupee during the British Rule?

8. Which Afghan king issued a coin of silver, weighing 178 grains, which was termed the Rupiya?



Pingali Venkayya, Sher Shah Suri, Sixteen, Two, Bhikaji Cama, Anandamath, Bengali, Sarnath



States are smaller regions of a country. Each state has its capital city. Each state is headed by a State Government. India also has a few union territories. These are under the control of the Central Government.

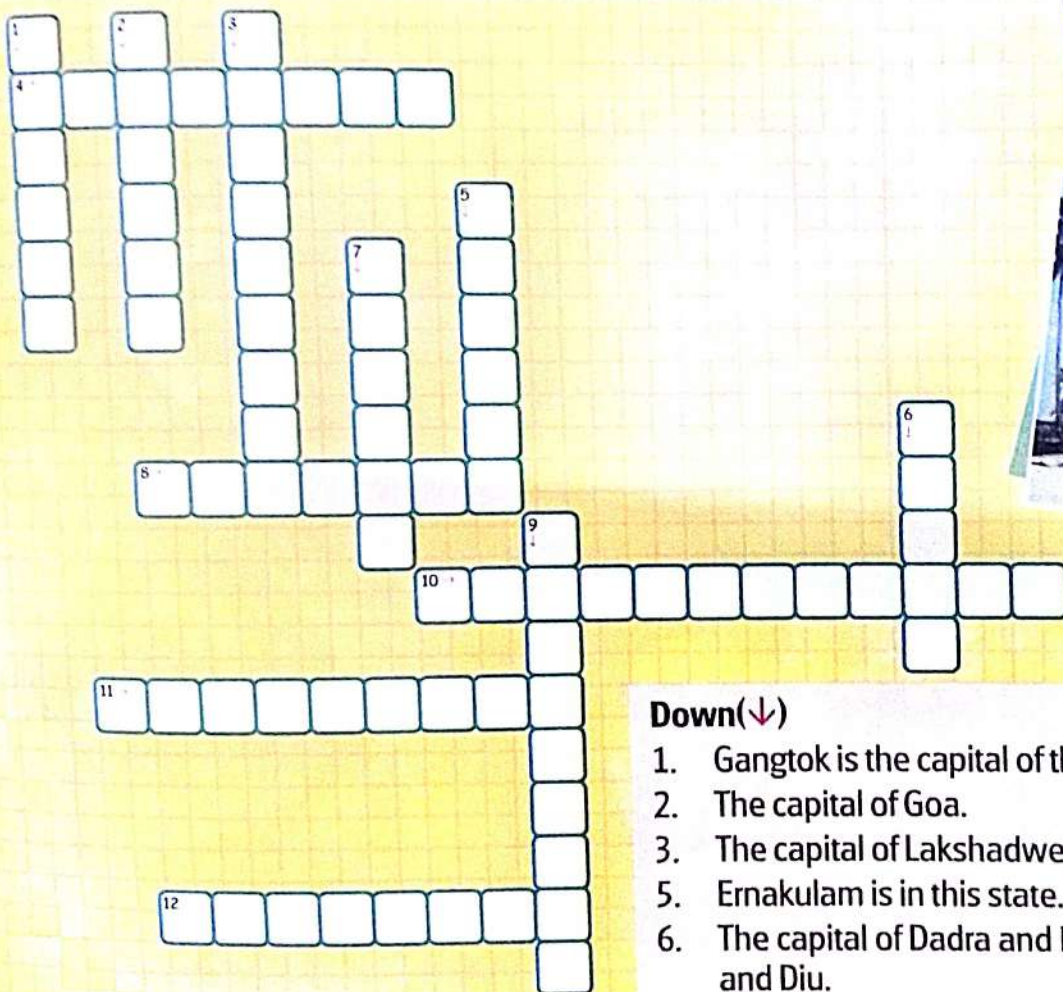


The State CROSSWORD

Solve the crossword puzzle given below :

Across(→)

4. The capital of Arunachal Pradesh.
8. Agartala is the capital of this state.
10. The state etched out of Madhya Pradesh in 2000.
11. The capital of Andaman and Nicobar Islands.
12. The capital of Uttarakhand.



Down(↓)

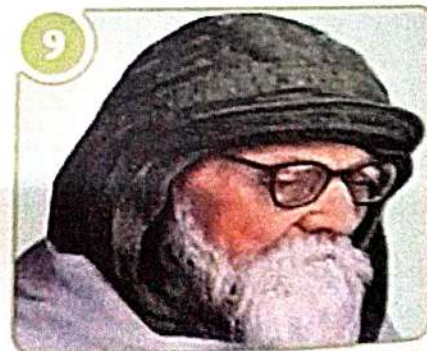
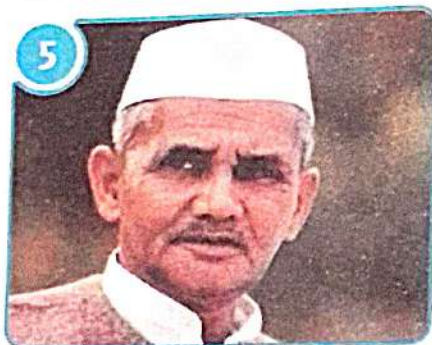
1. Gangtok is the capital of this state.
2. The capital of Goa.
3. The capital of Lakshadweep.
5. Ernakulam is in this state.
6. The capital of Dadra and Nagar Haveli and Daman and Diu.
7. The capital of Assam.
9. The state etched out of Bihar in 2000.

18

National HEROES



Identify these Indian heroes by assigning the letters to their pictures. Use "Hint Box" provided at the bottom :



Hint Box

Kittur Rani Chennamma, Bhagat Singh, Lal Bahadur Shastri, Nana Sahib, Dadabhai Naoroji, Vinoba Bhave, Subhas Chandra Bose, Rani Lakshmi Bai, Gopal Krishna Gokhale

The Government of India has instituted several national awards for extending recognition to citizens who have served the country with full devotion.



Indian Awards

Name the following awards. You can take help from the "Hint Box" :

1. Highest civilian award, for highest degree of national service in art, literature, science, public service or any field of human endeavour.



2. Second highest civilian award, awarded to recognise distinguished service to the nation in any field.

3. International award, by the Government of India as a tribute to Gandhiji's ideals.



4. This award is given to children between the ages of 6 to 18 years for meritorious acts of bravery.



5. Highest military award for highest degree of valour in presence of the enemy.

6. Highest award for lifetime achievement in sports and games.



7. Literary honour given by Sahitya Akademi for outstanding work in literature, in any of the major languages of India.

Hint Box

Dhyan Chand Award, Bharat Ratna, Gandhi Peace Prize, National Bravery Award, Padma Vibhushan, Sahitya Akademi Award, Param Vir Chakra

Fact File

Introduced in 1969. Dada Saheb Phalke Award is the highest award given to the personalities for lifetime achievements in cinema.

India and the Nobel Prize



The Nobel Prize winners shown here are either Indians or have an Indian connection. Read the information and write their names using "Hint Box" :

1



- A great writer and philosopher.
- Became the first Indian to receive the Nobel Prize in Literature in 1913.
- The author of the national anthems of India and Bangladesh.

- Born in 1888 in Tamil Nadu.
- Was awarded the Nobel Prize in Physics in 1930.
- Discovered the 'Raman Effect'.

2



3



- Synthesized the first wholly artificial gene.
- Received the Nobel Prize in Physiology (Medicine).
- Was awarded the US National Medal of Science.
- Became a naturalized citizen of the US in 1966.

- Received the Nobel Peace Prize in 1979.
- Set up many homes for the poor; established the Missionaries of Charity in Kolkata.
- Also established the Nirmal Hriday organization.

4



5

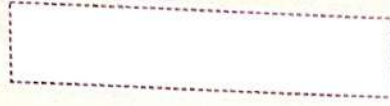


- Won the 1983 Nobel Prize in Physics for his studies on the physical processes important to the structure and evolution of stars.
- The nephew of Dr. C.V. Raman.

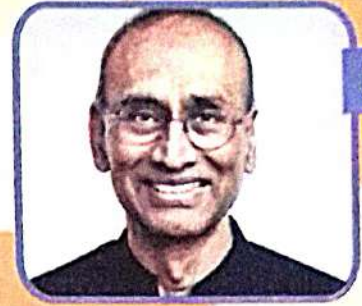
6



- Won the Nobel Prize in 1998 in Economic Sciences.
- Researched the causes of famine and poverty.



- Won the Nobel Prize in 2009 in Chemistry along with Thomas A. Steitz and Ada Yonath.
- Set to become the President of the Royal Society of London on 30 November, 2015.



7



8



- A children's rights activist.
- Won the Nobel Peace Prize in 2014 along with Malala Yousafzai.
- Founded the Bachpan Bachao Andolan, which helped to protect the rights of more than 83,000 children from 144 countries.



- Won the Nobel Prize in Economic Sciences in 2019 along with his two co-researchers Esther Duflo and Michael Kremer "For their experimental approach to alleviating global poverty".



9



Fact File

In 1968, Sweden's central bank Sveriges Riksbank instituted an annual prize called the Sveriges Riksbank Prize in Economic Sciences in the memory of Sir Alfred Nobel. It is awarded on 10th December in Sweden along with the Nobel Prizes.

Hint Box

Har Gobind Khorana, Rabindranath Tagore, Subrahmanyan Chandrasekhar, Abhijit Banerjee, Kailash Satyarthi, Venkatraman Ramakrishnan, Mother Teresa, Amartya Sen, C.V. Raman

Institutions of India



Here are some important Institutions of the Government of India about which you must have read in newspapers. Write their full names :

1. CBSE is a Board of Education for public and private schools, under the Government of India.





2. RBI was established on 1st April, 1935. It now serves as India's Central Bank. It also regulates the issue of bank notes and takes steps to maintain the monetary stability of India.

3. NCC is an organisation, comprising the Army, Navy and Air Force, engaged in grooming the youth of the country.





4. CBI investigates certain criminal offences like corruption and fraud by public servants, terror attacks, bomb blasts and underworld crimes.

5. NCERT is the apex body that assists and advises the government on academic matters related to school education.





6. UPSC is India's central agency that conducts the Civil Services Examination, Combined Defence Services Examination, Combined Medical Services Examination and other such examinations in India.



The army, navy and air force together form the Indian Armed Forces. It is among the largest military force in the world. The President of India is the supreme commander of the Indian Armed Forces.



The Indian Army

The Army is the oldest part of the Armed Forces. It protects the land. The modern army uses tanks, guns and missiles.



The Indian Navy


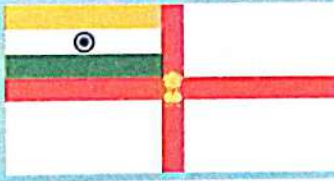
The Navy protects the sea boundaries using powerful ships and submarines. Some ships also carry fighter planes that take off from the deck of a ship. Such ships are called aircraft carriers.



The Indian Air Force

The Air Force protects the air boundaries using helicopters and fighter planes including Sukhoi, Mirage and Jaguar fighter jets.

The ranks of all three defence services are given below. Write the correct number to rank them, beginning with the highest rank :

 Army	 Navy	 Air Force
Major <input type="checkbox"/>	Commander <input type="checkbox"/>	Air Commodore <input type="checkbox"/>
Brigadier <input type="checkbox"/>	Lieutenant Commander <input type="checkbox"/>	Air Marshal <input type="checkbox"/>
Lieutenant <input type="checkbox"/>	Admiral <input type="checkbox"/>	Flying Officer <input type="checkbox"/>
Lieutenant Colonel <input type="checkbox"/>	Captain <input type="checkbox"/>	Squadron Leader <input type="checkbox"/>
Colonel <input type="checkbox"/>	Sub-Lieutenant <input type="checkbox"/>	Wing Commander <input type="checkbox"/>
Captain <input type="checkbox"/>	Vice-Admiral <input type="checkbox"/>	Flight Lieutenant <input type="checkbox"/>
Lieutenant General <input type="checkbox"/>	Commodore <input type="checkbox"/>	Group Captain <input type="checkbox"/>
General <input type="checkbox"/>	Lieutenant <input type="checkbox"/>	Air Chief Marshal <input type="checkbox"/>
Major General <input type="checkbox"/>	Rear Admiral <input type="checkbox"/>	Air Vice-Marshal <input type="checkbox"/>



Women Achievers



Given below are the pictures of some women achievers. They broke the stereotypes about women through their courage and hard work. They became the first women to enter their respective fields. Identify them by assigning the letters to their pictures. Use the "Hint Box":



Cabinet Minister

1



Ambassador

2



Foreign Secretary

3



Locomotive Driver

4



Judge of the Supreme Court

5



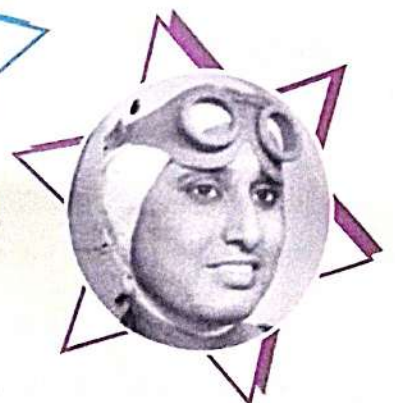
President of the United Nations General Assembly

6



Climbed Mt. Everest twice

7

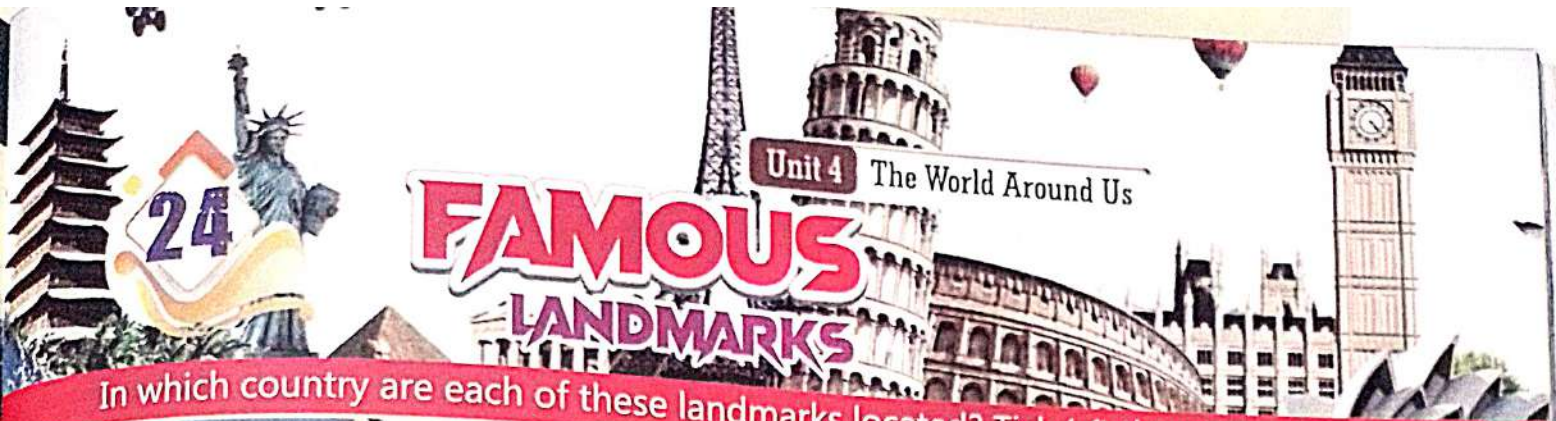


Swam across the English Channel

8

Hint Box

- a. Rajkumari Amrit Kaur, b. Surekha Yadav, c. Chokila Iyer, d. Vijaya Lakshmi Pandit, e. Santosh Yadav, f. Meera Sahib Fathima Beevi, g. Arati Saha, h. C. B. Muthamma



1. Taj Mahal
 (a) Saudi Arabia (b) Turkey (c) India
2. Bran Castle
 (a) Germany (b) Romania (c) Netherlands
3. Mont Saint Michel
 (a) France (b) Belgium (c) Spain
4. Pashupatinath Temple
 (a) Afghanistan (b) Nepal (c) India
5. Grand Canyon
 (a) USA (b) Australia (c) China
6. Big Ben
 (a) Russia (b) England (c) France
7. Burj Khalifa
 (a) Iran (b) Syria (c) UAE
8. St. Peter's Basilica
 (a) Italy (b) Greece (c) Vatican City

Fact File

Mount Rushmore National Memorial is a massive sculpture carved into Mount Rushmore in the Black Hills region of South Dakota.

Names of places are changed for various reasons: to denote recently gained independence, to honour a person or for other political considerations.



Old Places New Names

The former names of some countries and places are given below. Write their current names:

	Former Name	Current Name	
	1. Ceylon	.....
	2. Persia	.....
	3. Democratic Republic of Congo	.....
	4. Gaul	.....
	5. East Pakistan	.....
	6. Zanzibar	.....
	7. Batavia (Indonesia)	.....
	8. Peking (China)	.....
	9. Mesopotamia	.....
	10. Rangoon (Myanmar)	.....
	11. Christiana (Norway)	.....
	12. Byzantium (Turkey)	.....
	13. Southern Rhodesia	.....
	14. New Amsterdam (America)	.....
	15. Abyssinia	.....
	16. Formosa	.....

Hint Box







Beijing, Ethiopia, Iraq, Zaire, Sri Lanka, Oslo, Taiwan, New York, Tanzania, Zimbabwe, Iran, France, Jakarta, Istanbul, Yangon, Bangladesh

Several international organizations have been set up to address issues affecting the world in general.



MAJOR INTERNATIONAL Organizations

Identify and write the full names of the following organizations :

- | | | | | |
|---|--|------------------------------------|---|---------------------------------|
| 1 |  | FOUNDED
HEADQUARTERS
MISSION | 1946
New York, USA
Improve the health and welfare of children. | NAME
.....
.....
..... |
| 2 |  | FOUNDED
HEADQUARTERS
MISSION | 1945
New York, USA
Make decisions about maintenance of peace and human rights. | NAME
.....
.....
..... |
| 3 |  | FOUNDED
HEADQUARTERS
MISSION | 1961
London, UK
Campaign for human rights throughout the world. | NAME
.....
.....
..... |
| 4 | 
WWF | FOUNDED
HEADQUARTERS
MISSION | 1961
Switzerland
Protect endangered animals and create awareness about wildlife. | NAME
.....
.....
..... |
| 5 |  | FOUNDED
HEADQUARTERS
MISSION | 1944
Washington, USA
Promote world trade and foster global financial cooperation. | NAME
.....
.....
..... |
| 6 |  | FOUNDED
HEADQUARTERS
MISSION | 1948
Geneva
Promote health concerns world-wide and raise medical standards. | NAME
.....
.....
..... |

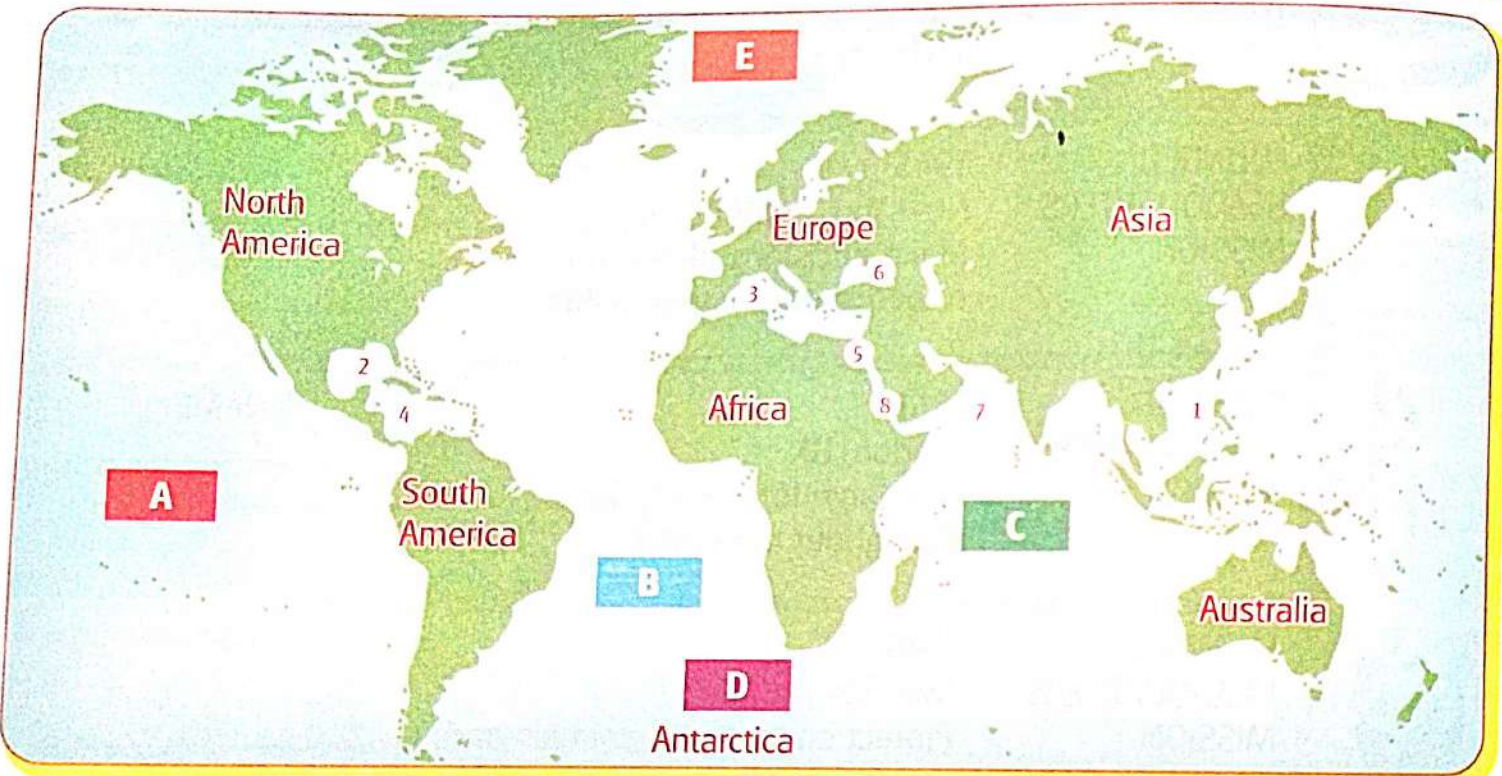
Hint Box

World Health Organization, United Nations, Amnesty International, International Monetary Fund, United Nations Children's Fund, World Wide Fund for Nature

There are five major oceans in the world and more than a hundred seas. A 'Sea' is different from an 'Ocean': A sea is smaller, partially enclosed by land and is found at places where the ocean meets the land.

OCEANS AND SEAS

Marked below are 8 major seas. Identify the five major oceans in the world map given below:



- | | | | |
|---------------------|---------------|----------------|----------------|
| 1 South China Sea | 5 Dead Sea | A _____ | B _____ |
| 2 Gulf of Mexico | 6 Black Sea | _____ | |
| 3 Mediterranean Sea | 7 Arabian Sea | C _____ | _____ |
| 4 Caribbean Sea | 8 Red Sea | D _____ | E _____ |

Fact File

The Dead Sea, located near Jordan, isn't a sea. It is one of the saltiest lakes in the world. The salt content of its water is so high that you can float on it without even trying. Hence, it is impossible to drown here!

Some of the major cities in the world are situated on the banks of a river. In the ancient world, cities were usually built near sources of water, like a river.



Cities & RIVERS

Some of the cities located on the banks of a river are in the following table. Write down the names of the countries in which they are located :

CITY	RIVER	COUNTRY
1. Amsterdam	Amstel	
2. Baghdad	Tigris	
3. Cairo	Nile	
4. Delhi	Yamuna	
5. London	Thames	
6. Melbourne	Yarra	
7. Moscow	Moskva	
8. Paris	Seine	
9. Washington D.C.	Potomac	
10. Vienna	Danube	
11. Kolkata	Hooghly	

Fact File

The Amazon in South America, stretches over 6500 kms and is the second longest river in the world. The Amazon and its tributaries hold about 20% of the world's fresh water.

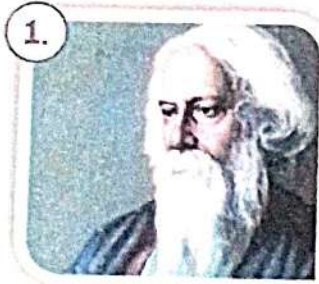
Some people are known to us by special names.



SOBRIQUETS



Write the special names by which we know the people given in the pictures below. Pick your answers from "Hint Box":



Rabindranath Tagore



William Shakespeare



Sardar Vallabhbhai Patel



Napoleon Bonaparte



Margaret Thatcher



Subhas Chandra Bose



Mary I of England



Ernesto Guevara



Mujibur Rahman



Kapil Dev



Milkha Singh



P.T. Usha

Fact File

These special names given to people or places are called sobriquets. Such sobriquets are often used in politics. The political figures are called by different names, based on their qualities. For example, American President Abraham Lincoln was known as 'Honest Abe'. Mohandas Karamchand Gandhi was known as Mahatma, Bapu ji and Father of the Nation.

Hint Box

Flying Sikh, Che, Haryana Hurricane, Netaji, Gurudev, Iron Lady, Bloody Mary, The Bard of Avon, Iron Man of India, Payyoli Express, Little Corporal, Bangabandhu

A mountain is defined as a large, natural elevation of the Earth's surface, rising abruptly from the surrounding level. There are 14 mountains in the world which are more than 8000m (26,247 feet) high, above sea level.



Mountain Peaks

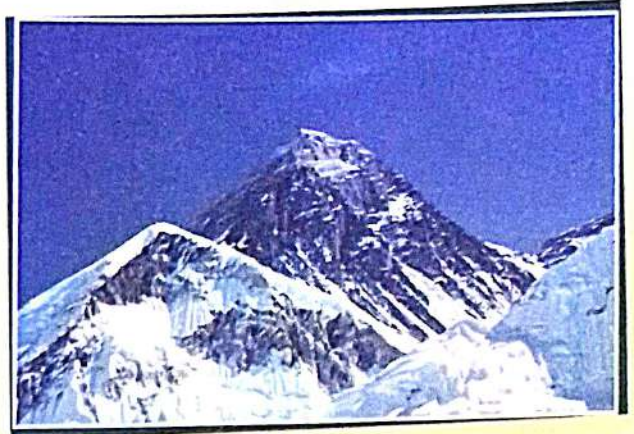


Mount Everest

Mount Everest is the highest mountain in the world.

Towering 8,848 metres (29,029 feet) above the sea level, it is located on the Tibet-Nepal border.

Though climbing Mount Everest is risky, many climbers attempt to conquer it every year.



Mount Everest, K2, Kanchenjunga, Lhotse, Makalu, Cho Oyu, Dhaulagiri, Manaslu, Nanga Parbat and Annapurna are some of the tallest mountain peaks in the world.

Hidden in the grid are the names of some of the tallest mountains in the world. Find them:

K	N	A	N	G	A	P	A	R	B	A	T
O	A	A	N	N	A	P	U	R	N	A	D
E	N	N	F	L	H	C	D	M	A	R	H
C	S	D	C	E	Q	W	T	F	E	B	A
F	H	Y	L	H	V	M	A	K	A	L	U
E	E	O	A	C	E	H	R	R	Q	U	L
V	K	N	O	L	M	N	T	H	L	L	A
E	C	L	Q	Y	H	P	J	S	J	G	I
R	S	H	V	O	U	O	A	U	B	Y	R
E	Y	G	L	O	U	N	T	M	N	R	R
S	K	B	Y	S	A	K	Q	S	Z	G	I
T	M	A	O	M	V	S	K	K	E	N	A



Fact File

In the year 2011, Kenton Cool became the first man to make a phone call from the summit of the Mount Everest. Thanks to a 3G network.





Pioneers of

THE WORLD



Ferdinand Magellan



Sunita Williams



Tenzing Norgay



Trygve Lie



Neil Armstrong



Sirimavo Bandaranaike



Roald Amundsen



Valentina Tereshkova



Sir Edmund Hillary



Yuri Gagarin



Amelia Earhart

Read the clue and identify the person :

1. The first man to sail around the world.
2. The first man to step on the moon.
3. The first woman to travel in space.
4. The first persons to climb Mount Everest.
 and
5. The first man to travel in space.
6. The world's first woman Prime Minister.
7. The first woman to complete 195 days in a single spaceflight.
8. The first person to reach the South Pole.
9. The first female pilot in the world to fly solo across the Atlantic Ocean.
10. The first Secretary General of the United Nations.



COINS and CURRENCY



Numismatics is the hobby of collecting coins of different countries. Similarly, some people also collect currency notes from various countries. Collection themes for coins and currency include country, year, mint mark, variety, composition, subject, period and printed value.

Coins and currencies give unique insights about the countries from which they originate. Some of them appreciate in value over time.



Find the names of ten currencies in the word grid :

H	D	R	U	P	C	S	U	P	M
H	I	I	J	G	O	X	P	E	U
N	N	C	W	J	S	U	E	S	M
R	A	R	I	Y	A	L	N	O	K
U	R	D	O	L	L	A	R	D	S
B	V	I	K	W	O	K	J	Y	E
L	P	B	R	W	N	G	L	E	E
E	G	F	Y	A	I	W	P	X	S
I	V	I	E	C	N	U	M	Z	W
Y	U	A	N	T	R	D	D	O	N



Hint Box

Pound, Peso, Dinar, Riyal, Dollar, Ruble, Yuan, Rand, Yen, Rupee

Quick Test ②

Based on Learning Skills

A. Tick (✓) the correct option :

1. Which is the second longest river in the world?
(a) Amazon (b) Nile (c) Yamuna
2. What is the Indian system of medicine called?
(a) Ank Ganit (b) Ayurveda (c) Homeopathy
3. Which is the capital of Arunachal Pradesh?
(a) Panaji (b) Itanagar (c) Portblair
4. Who is the first woman to complete 195 days in a single spaceflight?
(a) Sunita Williams (b) Valentina Tereshkova (c) Mae Jemison

B. Fill in the blanks :

1. The capital of Uttarakhand is
2. First woman from India to win Nobel Peace Prize (1979) was
3. is the highest mountain in the world.
4. The special name given to Margaret Thatcher is

C. Match the following :

- | | |
|----------------------------------|---------------------------|
| 1. First woman locomotive driver | (a) Kerala |
| 2. RBI | (b) London |
| 3. Ernakulum | (c) Surekha Yadav |
| 4. Thames | (d) Reserve Bank of India |

D. Identify the following pictures and write their names :



Unit - 5

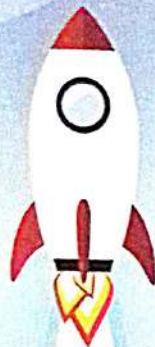


Unit - 6



Sports & Entertainment

- ✦ National Games of Countries
- ✦ Grand Slams
- ✦ Asian Games
- ✦ Sport Stars
- ✦ Sports Quiz
- ✦ Musical Notes
- ✦ Super Heroes
- ✦ Cartoon Characters
- ✦ Traditional Indian Theatre Forms



Science & Technology

- ✦ Tell Me Why?
- ✦ Common Ailments
- ✦ Therapies and Cures
- ✦ Measuring Instruments
- ✦ Famous Scientists
- ✦ Exploring Space
- ✦ Heavenly Bodies
- ✦ The Universe Quiz
- ✦ Cyber World



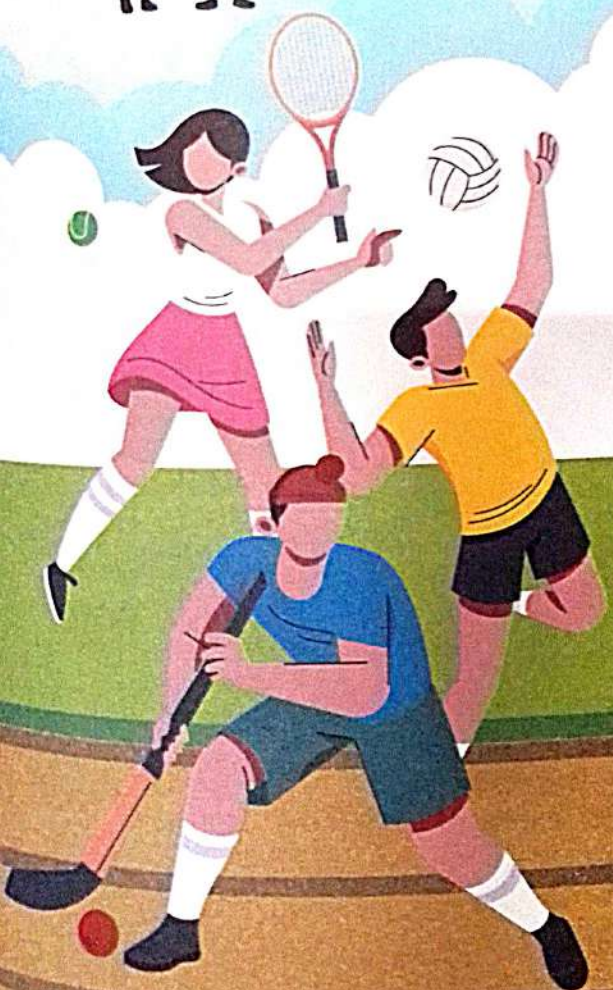
LEARNING SKILLS/OUTCOMES AS PER NEP 2020

- HD Gross Motor
- HD Teamwork
- 2nd CS Collaboration
- 2nd CS Flexibility
- 2nd CS Leadership
- HD Inter-personal
- 2nd CS Creativity

For Unit - 5

- HD Observation
- 2nd CS Productivity
- 2nd CS Initiative
- HD Curiosity
- 2nd CS Technology

For Unit - 6



Hockey is the national game of India. Similarly, every country has its own national game.

33

NATIONAL GAMES OF COUNTRIES

Identify the countries which have these sports or games as their national sport :



Volleyball



Lacrosse



Archery



Football



Cricket



Table Tennis



Kabaddi

1. Bhutan

2. Pakistan

3. Bangladesh

4. Jamaica

5. Sri Lanka

6. USA

7. Canada

8. Scotland

9. Brazil

10. China



Baseball



Golf



Field Hockey



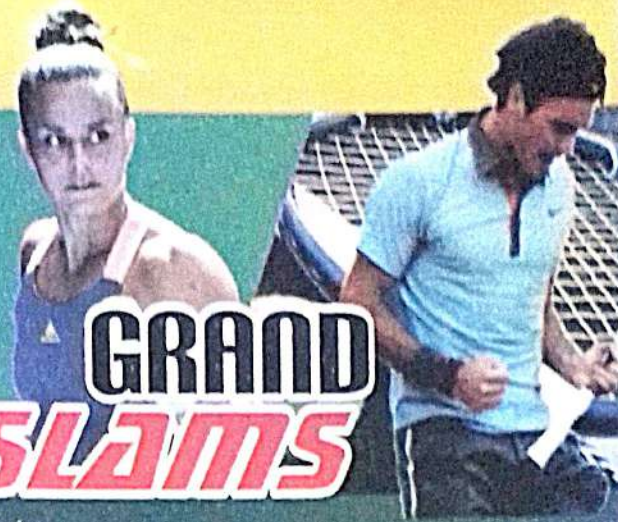
Fact File

Major Dhyan Chand is one of India's legendary hockey players. He was a part of three gold medal-winning Olympic field hockey teams.

Four major Tennis tournaments in the world are collectively called The Grand Slams. They are the Australian Open, US Open, French Open and Wimbledon. The US and the Australian Open are played on hard court, while the French Open is played on clay and Wimbledon on grass.



GRAND SLAMS



Fill in the missing vowels to identify these Grand Slam winners :



M_RT_N
N VR T L V



NDR
_G_SS



R_F_EL
N_DAL



ST_FF_
GR_F



N_V_K
DJ_K_VIC



S_REN_
W_LL_MS



B_RS
B_CK_R



P_T_
S_MPR_S



Fact File

Roger Federer currently holds the record for the maximum number of Grand Slam titles (20) and maximum number of Grand Slam Finals (31).



The Asian Games, also known as Asiad, began in 1951 and are held once in every four years. Sportspersons from all over Asia participate in it.

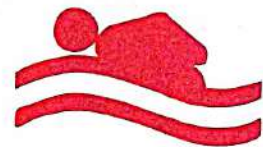


Asian Games



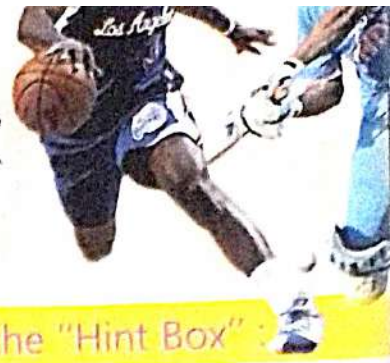
Answer the following questions to check your knowledge about the Asian Games. Use the clues given below:

1. Which was the first country to host the Asian Games?
2. Name the famous person who assigned the name Asian Games.
3. What is the motto of the Asian Games?
4. What is the emblem of the Asian Games?
5. How many countries and contestants participated in the first Asiad?
6. At which Asian Games was kabaddi introduced as a medal sport?
7. At which Asian Games was golf included for the first time?
8. Why are the Busan's Asian Games famous?



Hint Box

Ever Onward, 11 countries and 489 participants, India, Jawaharlal Nehru, Beijing Asiad, 1990, New Delhi Asiad, 1982, First Asiad in this millennium, Bright full rising sun with interlocking rings



Identify the following sport stars and write the names with the help of the "Hint Box":



He is an Indian cricketer and the current captain of the India national team. He is a right-handed top-order batsman.



She is an Indian boxer who has won the Women's World Amateur Boxing Championship six times.



He is an American basketball player who is considered one of the greatest NBA players in the history of basketball.



This Indian is the first track and field athlete to win a Gold Medal for India at the Olympics.



This German is the youngest Formula-1 racing driver to win four World Championships.



He is a Jamaican sprinter who is the first athlete to win the 100 m and 200 m sprint titles at the Olympics.



He is a Chinese badminton player who has won the Olympic gold twice and the All-England Championship six times.



He is India's leading billiards and snooker player and has won 10 World Championship titles.

HINT Box

LeBron James, Neeraj Chopra, Mary Kom, Lin Dan, Sebastian Vettel, Pankaj Advani, Usain Bolt, Rohit Sharma

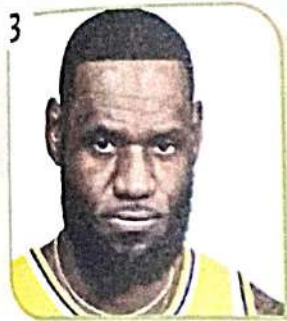
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Hint Box

LeBron James, Neeraj Chopra, Mary Kom, Lin Dan, Sebastian Vettel, Pankaj Advani, Usain Bolt, Rohit Sharma



Sports QUIZ

Tick (✓) the correct answer :

- Who was the first batsman to be declared OUT by a 'Third Umpire'?
(a) Sachin Tendulkar (b) Brian Lara
- Where did the first Indian Grand Prix take place?
(a) Buddh International Circuit (b) Gautama Circuit
- Which former Indian cricketer is nicknamed 'Jumbo'?
(a) Rahul Dravid (b) Anil Kumble
- With which sport would you associate the term 'Sudden Death'?
(a) Football (b) Cricket
- Which sport ranks players based on the Elo rating?
(a) Chess (b) Judo
- Of the four Tennis Grand Slams, which one is played on clay?
(a) US Open (b) French Open
- Which country hosted the first FIFA World Cup?
(a) Uruguay (b) Brazil
- Name the highest honour given for sports excellence in India.
(a) Arjuna Award (b) Rajiv Gandhi Khel Ratna
- 'Chicago Bulls' is part of which famous league in the world?
(a) National Basketball Association (b) National Football League
- What is the national sport of Spain?
(a) Hockey (b) Football



38

Musical Notes

Give one word for each of the following description related to music :

1. A group of musicians organized to perform together.
2. A song or piece that is performed by one person alone.
3. A drama set to music and made of vocal and orchestral pieces.
4. A song or piece performed by two persons together.
5. A person who writes the words of songs.
6. A song sung during Christmas.
7. An organized group of singers, as in a church service.
8. A part of a song that is repeated at regular interval.
9. A person who creates and writes music.
10. A person who leads or commands an orchestra.

Hint Box

Composer, Conductor, Lyricist, Carol, Chorus, Duet, Choir, Solo, Orchestra, Opera





The Oxford English Dictionary defines a 'Super Hero' as 'a fictional hero having extraordinary or super human powers'. The concept of 'Super Heroes' became popular world over, when DC comics and Marvel comics created super hero characters like Superman, Batman, Ironman, etc. Super heroes have their own unique costumes and usually fight to protect the people of the world and sometimes, beings of the universe.

Match the Super Heroes with their real names :



1. Batman

(a) Kit Walker



2. Phantom

(b) Bruce Wayne

3. The Hulk

(c) Barry Allen



4. Daredevil

(d) Bruce Banner

5. Flash

(e) Peter Parker

6. Spider Man

(f) Matt Murdock



7. Wonder Woman

(g) Clark Kent

8. Superman

(h) Princess Diana of Themyscira



Fact File

Marvel's 'The Avengers' is an American Super Hero motion picture in which characters like Ironman, Thor, Hulk and Captain America are featured. The Film went on to become a huge commercial success.



Cartoon Characters



Fill in the blanks with the names of these famous cartoons :



1. was created by the Hanna-Barbera production team in 1969. The cartoon involves the adventures of a Great Dane dog and his four teenage friends- Fred, Daphne, Velma and Shaggy.

2. The cartoon show is about a boy genius called, who has a massive secret laboratory, where he conducts his experiments. The series was created by Genndy Tartakovsky.



3. was created by the Hanna-Barbera production. The show revolves around him and his companion Boo-Boo, in the fictional Jellystone Park, where they often try to steal the campers' picnic baskets.

4. is the friendly sailor created by Elzie Crisler Segar in 1929. His girlfriend is Olive Oyl, whom he rescues from Bluto, usually with a healthy dose of Spinach.



5. are two of the most popular cartoon characters of all time. They were created by William Hanna and Joseph Barbera for Metro Goldwyn-Mayer. All the episodes revolve around the rivalry between the cat and the mouse.

6. is a character who lives in the fictional, prehistoric town of Bedrock, a world where dinosaurs coexist with modernised cave people. His catchphrase "yabba dabba doo!" is very popular world over.



7. is a trickster rabbit character. This rabbit has acted in more than 175 films and has won an Oscar too. His voice-over was done for nearly five decades by Mel Blanc.



Dexter, Tom & Jerry, Bugs Bunny, Yogi Bear, Popeye, Fred Flintstone, Scooby Doo



TRADITIONAL INDIAN THEATRE FORMS

Fill in the blanks with the help of the "Hint Box" :



1. is a traditional theatre form which is said to have originated from the Gujarat and Rajasthan regions. The instruments used in its performance are tabla, flute, sarangi, manjeera, etc.

..... is a very popular theatre form in Uttar Pradesh. Verses such as Doha, Chaubola, Chhappai are used for dialogues. There was a time when women were not allowed to act in it but today, many women take part in its performance.



3. is a traditional theatre form of Karnataka. It is based on mythological stories such as, popular episodes from Mahabharata and Ramayana. The word means 'the song of the Demi-Gods'. The performers wear fancy, colourful costumes, and elaborate headgears. Men portray both the male and female characters.

4. is a traditional folk theatre form from Maharashtra. It has evolved from other folk forms such as Gondhal, Jagran and Kirtan. Unlike other theatre forms, in it, a female actress does most of the dance movements. She is known as a 'Murki'. Classical music and fast paced footwork are this form's characteristics.



Fact File

Raasleela is based completely on Lord Krishna's stories. The initial plays are believed to have been written by the poet Nand Das, who wrote plays portraying the mischievous Krishna and various instances from his life. This theatre form beautifully combines dialogues in the form of speeches and songs.

Hint Box

Yakshagana, Bhavai, Tamasha, Nautanki

Tell Me Why?

Why do we see a rainbow after it rains?

Rainbows are formed when the sunlight gets scattered by the rain drops or moisture in the sky. The occurrence of moisture or rain drops is more after a rain and hence, rainbows are seen mostly after rains.



Why do snakes shed their skin?

Snakes grow as they age but their skin does not grow. They shed when they are too big for their skin, the way humans outgrow clothes. They shed their skin by rubbing themselves against rocks or logs.

Why are cold-blooded animals called so?

Cold-blooded animals do not really have cold blood. 'Cold-blooded' means their body temperature is the same as the temperature of the air and water around them.



Why is the sky blue?

As the sun's light passes through the atmosphere, its rays are scattered by tiny particles of pollen and dust present in the air. As blue light is scattered the most, the sky appears blue.

During sunrise and sunset, the light from the sun has to travel further to reach us. Only red light can be seen because blue light has been absorbed by the atmosphere.



Why is our blood red?

Blood contains tiny, circular, flat discs called red blood cells. These red blood cells contain a pigment called haemoglobin which is red in colour. As there are approximately 35 trillion (thousand million) red blood cells moving around our body, blood naturally appears red.

Red cells live only for about four months and then are broken up. New red cells are always formed to replace the worn out cells.



Why are some people left-handed?

The brain is divided into the left half and the right half. It is believed that the left portion controls the working of the right side of our body and vice versa. Usually, the left half of the brain predominates the right half and that is how most of us are right-handed. However, in some cases, the right half of the brain is predominant and such people work best with the left side of their body; and are hence left-handed.





COMMON Ailments



Read the description and identify the disease /condition :

1. The blood lacks the right level of haemoglobin and blood volume goes below normal.
2. A portion of the face near the ears gets swollen up due to inflammation of the salivary gland.
3. There is inflammation in the lungs and lining of the windpipe causing difficulty in breathing.
4. It is a skin condition in which the skin becomes swollen, itchy and red, and there is discharge from blisters.
5. There is pain and swelling in the nose and throat due to bacterial infection.
6. It occurs when an open wound is exposed to dust and soil, and causes a painful contraction of muscles.
7. There is a malignant (harmful) overgrowth in the affected part of the body, resulting in damage of tissues.
8. There is an inability to correctly recognise colours.
9. This disease caused by the bite of an infected mosquito results in shivering, fever and weakness.
10. The eye lens turn crystalline and vision is damaged.

Hint Box

Mumps, Cataract, Colour Blindness, Eczema, Tetanus, Bronchitis, Cancer, Diphtheria, Anaemia, Malaria

...medicine that... to cure people without the use of conventional drugs or surgical procedures.



THERAPIES AND CURES



Identify these forms of alternative medicine :



It is an ancient form of Chinese medical system. According to it, there are 365 points on the body which are connected to different body organs. These points are stimulated using needles to cure the ailment.

It is the oldest surviving medicinal system in the world. It evolved in India thousands of years ago. In this form of medicine, extracts from plants are used to prepare medicines.



This therapy works on the principle of nature's healing powers. It focuses on the ability of the body to maintain and cure itself. It believes that most ailments can be cured by making the required dietary and lifestyle changes.

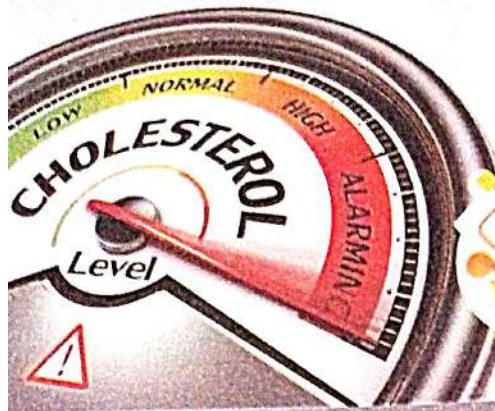
This form of medicine originated in Greece and can be traced back to the 2nd century. It believes that certain elements present in our body fluids are responsible for health; any imbalance of these elements leads to illness.



In this system of medicine, extremely dilute amounts of certain natural substances are used to treat various ailments. It works on the principle that very low doses of a toxin can cure the same symptoms that the toxin would cause in large doses.

Hint Box

Unani, Homeopathy, Acupuncture, Ayurveda, Naturopathy



MEASURING INSTRUMENTS



Match these instruments with the things they measure, by writing the correct letters in the boxes:



1. Odometer



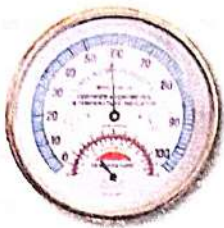
2. Barometer



3. Rain gauge



4. Altimeter



5. Hygrometer



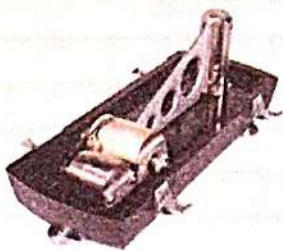
6. Light meter



7. Radar gun



8. Spirometer



9. Seismometer



10. Anemometer



11. Hydrometer



12. Ammeter

Hint Box

a. air pressure, b. distance travelled by a wheeled vehicle, c. wind speed and direction, d. speed of moving objects, e. electric current in a circuit, f. specific gravity (or relative density) of liquids, g. motions of the ground, h. relative humidity, i. amount of light, j. altitude, k. volume of air inspired and expired by the lungs, l. amount of rainfall



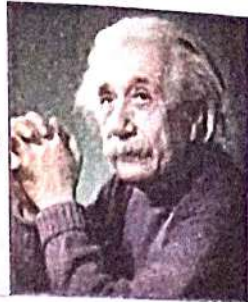
FAMOUS Scientists



Identify these great scientists :

- Born in Germany.
- His theories on relativity formed the basis for development of computers and space travel.

1



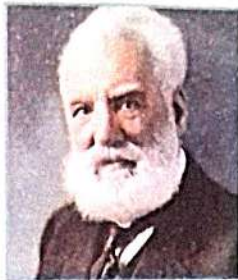
- Italian scientist and astronomer.
- The first to use a telescope to study the skies. The first man to see the satellites of Jupiter.

2



- Born in Britain.
- He invented the telephone.

3



- Born in ancient Greece.
- Famous for his formulation of a hydrostatic principle named after him.

4



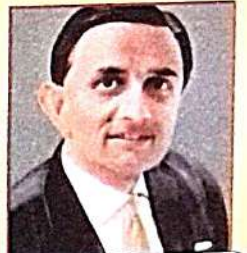
- Born in the USA.
- He invented the electric bulb and the phonograph.

5



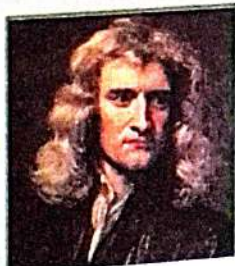
- Born in India.
- He helped set up the Indian Space Research Organisation (ISRO) in Bengaluru and country's first rocket launching station in Kerala.

6



- Born in England.
- He discovered the laws of gravitation and the laws of motion.

7



Hint Box

Thomas Alva Edison, Alexander Graham Bell, Galileo Galilei, Sir Isaac Newton, Archimedes, Vikram Sarabhai, Albert Einstein

Fact File

C.V. Raman was an Indian physicist who made ground breaking works in the field of light scattering. He won the 1930 Nobel Prize in Physics and was the first Asian person to receive a Nobel Prize in any branch of Science.

EXPLORING Space

47

Fill in the missing letters in the names of these famous astronauts :



He is the first Indian citizen in space. He was a military pilot and was selected as a cosmonaut, to fly on board Soyuz T-11.

R _ _ E _ H S _ A _ _ A



He was aboard the Russian Voskhod 2 space mission in 1965. He was the first man to walk in space. His Extra Vehicular Activity (EVA) or space walk lasted for 12 minutes.

AL _ _ EY LE _ _ OV



He became the first man to land on the moon on 20th July, 1969. He and Buzz Aldrin landed on the moon aboard Apollo 11, a moon landing mission.

NE _ _ ARM _ _ _ _ _ G



She is the first woman in history to head a space mission. She became the first woman to complete 195 days in a single spaceflight. In 2007, she also ran the first marathon by an astronaut in orbit, on a station treadmill.

SU _ _ _ _ WI _ _ _ _ _ S



This dog was the first living being to be sent into space. She survived for a week in space after which the air in her space module ran out and she died.

L _ _ KA

He was a Russian cosmonaut and was the first human to be launched into space. He spent an hour and forty-eight minutes orbiting the Earth.

Y _ R _ G _ GA _ _ N



She was the first woman to go into space. This Russian cosmonaut piloted the Vostok 6 on 16th June, 1963.

VA _ EN _ _ NA TER _ _ HK _ _ A



Fact File

Samantha Cristoforetti holds the records for longest single space flight by a woman (199 days 16 hours) and for the longest uninterrupted spaceflight of a European astronaut.

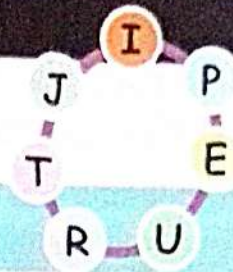
The Solar System comprises of 8 planets and 5 dwarf planets.



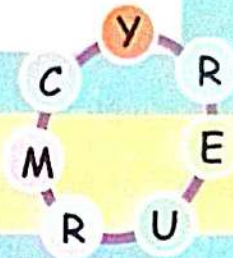
Heavenly BODIES

Unscramble the letters to find out the names of the planets :

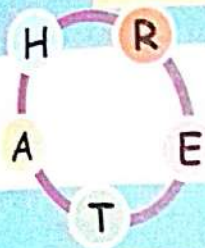
1 The Romans named this planet after their king of Gods.
.....



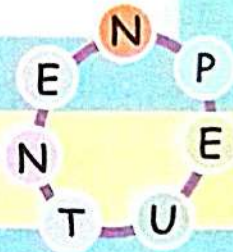
2 This planet is named after the ancient Greek God of the sky.



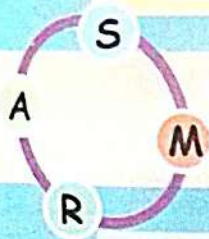
3 This planet is named after the Roman God of merchants.
.....



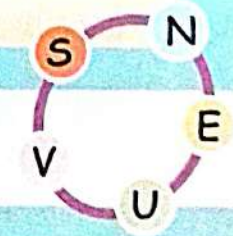
4 This planet is named after the old English/German word for 'ground'.



5 This planet is named after the Roman God of sea.
.....



6 This planet is named after the Roman God of war.
.....



7 This planet is named after the Roman Goddess of love and beauty.



8 This was the first planet to be discovered by telescope.
.....

Fact File

Ceres, Pluto, Haumea, Makemake and Eris are the dwarf planets of our Solar System. "My Very Educated Mother Just Served Us Noodles" is a mnemonic which can be used to remember the order of 8 planets in the Solar System.

THE UNIVERSE

Quiz



Spot the right answer :

- Sometimes, the Earth passes between the Sun and the Moon in such a way that the Sun's light does not fall on the Moon. What is this phenomenon called?
(a) Lunar Eclipse (b) Selenelion (c) Solar Eclipse
- Which is the only planet in the Solar System that rotates clockwise on its axis?
(a) Neptune (b) Jupiter (c) Uranus
- Which astronomical body was named after Edmond Halley? When was it last seen?
(a) Comet, 1986 (b) Asteroid, 1996 (c) Meteor, 1986
- Tiny particles stream out from the Sun and enter the Earth's atmosphere near the Poles, causing a shimmering glow. What is the name given to this phenomenon?
(a) Corona (b) Aurora (c) Fog Bow
- Why is oxygen circulated around the helmet in space suits?
(a) To help the astronaut breathe
(b) To fill the astronaut's oxygen cylinders in the space
(c) To prevent the visor from misting
- Who was the astronomer who argued that life's basic chemicals came from space and were not formed on the Earth?
(a) Stephen Hawking (b) Thomas Gold (c) Fred Hoyle
- What is the name given to a group of stars that form a particular identifiable shape in the sky?
(a) Spectrum (b) Galaxy (c) Constellation
- Sometimes, the Moon passes between the Sun and the Earth and casts a shadow on the Earth. What is this phenomenon called?
(a) Solar Eclipse (b) Lunar Eclipse (c) Annular Eclipse



Internet is a worldwide network of computers where information can be transferred from one computer to the other, with authorization from the user. The world has shrunk with the help of this digitalisation and communication has grown stronger.



CYBER World

Identify the correct terminology with the help of the hints given below :

1. Some set of characters used to authenticate the identity of a user during the login process.
2. A unique name that denotes a website.
3. This is a write-up published online on a website or an online domain like a daily diary entry.
4. A movable video camera linked to a computer and is helpful for showing images to the internet users.
5. What is an individual who tries to access digital information of someone else without permission, called?
6. A network security system specially designed to hinder unauthorized access on a private network.
7. Buying and selling of goods and services over the internet is known by this name.
8. These are temporary files that are created on your computer's memory whenever you browse something online.
9. A program which is used to browse the Internet and the common interfaces include Internet Explorer, Google Chrome, Mozilla Firefox and Safari.
10. This is called the brain of the computer.

Fact File

A virus is a program that runs on the user's computer without his knowledge and can damage files.

Hint Box

CPU, Cookies, Webcam, Hacker, Blog, Browser, Password, Domain, E-commerce, Firewall

Quick Test

3

Based on Learning Skills

A. Tick (✓) the correct option :

1. What is the national sport of Spain?

(a) Hockey

(b) Football

(c) Cricket

2. A person who creates and writes music.

(a) Lyricist

(b) Conductor

(c) Composer

3. This planet is named after the old English/German word for 'ground'?

(a) Jupiter

(b) Mars

(c) Earth

4. Who invented the telephone?

(a) Albert Einstein

(b) Alexander Graham Bell

(c) Galileo Galilei

B. Fill in the blanks :

1. The red blood cells contain a pigment called

2. A is a program that runs on the user's computer without his knowledge and can damage files.

3. is one of India's legendary hockey players.

4. was the first country to host the Asian Games.

C. Match the following :

1. Anemometer

(a) Peter Parker

2. First Indian in Space

(b) Archery

3. Spiderman

(c) Wind speed and direction

4. Bhutan

(d) Rakesh Sharma

D. Identify the following pictures and write their names :



Unit - 7



Values & Life Skills

- ✦ Be Right, Do Right
- ✦ Gesture Communication
- ✦ Major Religions
- ✦ Body Language
- ✦ Yoga

Unit - 8



Train Your Brain

- ✦ Analogies
- ✦ Brain Teasers
- ✦ Co-relation
- ✦ Mathemagic
- ✦ Logical Approach
- ✦ Quick Thinking
- ✦ Spot the Difference



LEARNING SKILLS/OUTCOMES AS PER NEP 2020



For Unit - 8

- HD Psychomotor
- HD Self-regulation
- 21st CS Social Skills
- HD Empathy
- 21st CS Health & Well-being

For Unit - 7

- HD Problem-solving
- 21st CS Creativity
- 21st CS Critical Thinking

Be Right, Do Right

Read the following scenario and choose your response :

1. You want to tell something to your uncle, but he is talking to your mother. You will

- (a) tell at once what you want to tell to your uncle.
- (b) ask your uncle to stop talking and listen to you.
- (c) wait patiently for your uncle to finish what he is saying and then talk to him.



2. An old friend approaches you while you are talking to another friend. You will

- (a) continue talking to the friend and ignore the old friend.
- (b) introduce your old friend to the friend you are talking to, before you break into conversation.
- (c) ignore the friend you are talking to and talk to the old friend at once.

3. Imagine you are at a dinner party. You need a particular dish that is far from your side of the table. You will

- (a) ask the nearest person to pass it.
- (b) lean over and take it.
- (c) decide not to have that dish.



4. Your friend is upset about something you did. The mistake is yours, and when he/she is talking about that to you, you will

- (a) not take anything that he/she says seriously as you know that he/she will be fine after sometime.
- (b) listen to all the things that he/she says and then apologize for your behaviour.
- (c) tell him/her that you will talk later and then never mention that topic.



5. In a class test, you scored lower than your friends. You will

- (a) feel worried and dejected, and believe that you are good for nothing.
- (b) understand that there is no point of studying and ignore the marks.
- (c) take it as an opportunity to study well and do well in the coming tests.

6. A relative asks you a question while you are playing with a smartphone. You will

- (a) stop whatever you are doing on the smartphone, look at the person who talked to you and answer politely.
- (b) answer at once without taking your eyes off the smartphone.
- (c) pretend that you haven't heard the question as you don't want to get disturbed.



Fact File

If you have the right attitude and manners, you will be able to lead a happy life. Treat others with kindness and find goodness in everything and never forget to smile.

A gesture is a form of non-verbal communication in which visible bodily actions communicate particular messages, either in place of speech or together and in parallel with words. Gestures include movement of the hands, face or other parts of the body.



Gesture Communication



Recognise the following gestures with the help of the "Hint Box" :



1. The gesture used to display respect.

2. This gesture demonstrates that the hands holds no weapon and is a symbol of good sportsmanship, equality and trust.



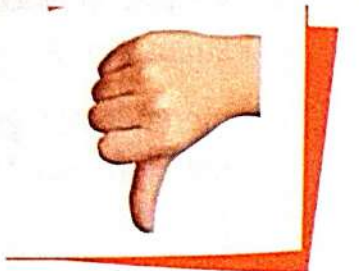
3. The gesture used to stand for victory.

4. This gesture is to hope for good luck or fortune.



5. This gesture indicates success or it also indicates something that is good and accepted.

6. This gesture indicates failure or it also indicates something that is bad and not accepted.



Hint Box

V-sign, Salute, Thumbs up, Thumbs down, Shaking hands, Fingers crossed

Fact File

God Bless You is a common English expression said to a person after he/she sneezes. It is believed that the heart stops heating while sneezing and the phrase 'God Bless You' encourages the heart to continue beating.

India is a land of rich and varied cultural heritage.

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MAJOR RELIGIONS

Given below are some important facts about various religions. Read the clues and name the religions:

1. It started in Punjab around 1500 CE. The Guru Granth Sahib is the holy book of this religion.



3. Gautama Buddha was the founder of this religion. The title 'Buddha' means 'The Enlightened One'.



5. This religion is based on the life and teachings of Jesus Christ. The Bible is the holy book of this religion.



7. It is one of the oldest religions and is the first religion to teach the belief in one God. Israel has the majority of followers of this religion.



2. Some of the sacred books of this religion are the Vedas, the Upanishads and the Bhagavad Gita.



4. This religion takes its name from 'Jina' meaning victor or conqueror, a title given to the 24 great teachers called the Tirthankaras. Mahavira was one of its great teachers.



6. It is the religion that was preached by Prophet Mohammad. God is called Allah and the followers are divided into two sects: the Shias and the Sunnis.



8. Its founder was the Persian Prophet Zarathustra, whose name means the Golden Light. Its followers pray in the presence of fire.



Hint Box

Hinduism, Christianity, Zoroastrianism, Islam, Jainism, Buddhism, Sikhism, Judaism

Fact File

Religion helps in creating an ethical framework and also a regulator for values in day to day life.

Body language is a mix of gestures, postures and expressions.

54



Body Language

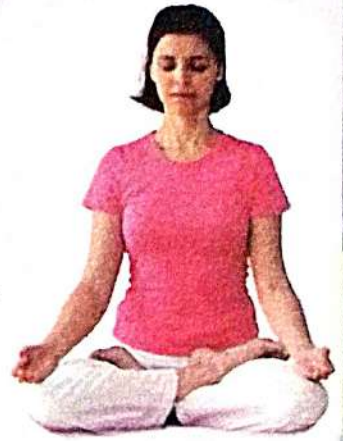
Match the following actions with the emotions that they convey:

- | | |
|-----------------------|-------------------------------|
| 1. bite lips | (a) confidence |
| 2. shake head | (b) fury |
| 3. wrinkle nose | (c) annoyance |
| 4. clench fist | (d) nervousness |
| 5. stamp foot | (e) anxiety |
| 6. raise eyebrows | (f) trying to make a decision |
| 7. nod head | (g) impatience |
| 8. wrinkle forehead | (h) unconcern |
| 9. click fingers | (i) dejection |
| 10. shrug shoulders | (j) disagreement |
| 11. drum fingers | (k) perplexity |
| 12. bite nails | (l) astonishment |
| 13. hunch shoulders | (m) trying to remember |
| 14. brisk, erect walk | (n) dislike |
| 15. stroke chin | (o) agreement |

Yoga is an ancient system of physical, mental and spiritual practices aimed at the all-round well-being of the individual. The different postures adopted during yoga are called 'asanas'.



YOGA



Read the clues and identify the names of the asanas with the help of the pictures :



1 It helps to make the spine flexible and strengthens muscles and bones.

2 It increases blood circulation and helps make muscles and joints flexible.



3 It strengthens the backbone and improves concentration.



4 It strengthens the arm muscles and improves blood circulation.



5 It strengthens the ribcage and improves functioning of abdominal organs.



6 It strengthens lower body muscles and aids in digestion of food.



Fact File

The International Day of Yoga has been celebrated annually on 21st June.

Hint Box

Vajrasana, Mayurasana, Padmasana, Trikonasana, Chakrasana, Dhanurasana

Analogy is defined as the similarity in some respects between things that are otherwise dissimilar or comparison based on similarity. It is made up of two word pairs, such as -
Puppy : Dog :: Kitten : Cat

Or

“Puppy is to dog as kitten is to cat”

Ask yourself. What is the relationship between puppy and dog? A puppy is a young one of dog, like a kitten is a young of a?

Cat is the best answer.

A. Complete each of the following incomplete statements :

1. Quack is to duck as is to donkey.
2. Thumb is to hand as is to foot.
3. Malayalam is to Kerala as is to Odisha.
4. Cub is to lion as is to deer.
5. Rich is to poor as is to sad.
6. Wrestling is to ring as race is to

B. Match the following :

- | | |
|------------------------------|----------------------------------|
| 1. A prisoner is to jail as | (a) Quran is to Muslims. |
| 2. A man is to woman as | (b) Garage is to car. |
| 3. Bat is to ball as | (c) Horse is to mare. |
| 4. Hangar is to aeroplane as | (d) Spoon is to fork. |
| 5. Tadpole is to frog as | (e) Caterpillar is to butterfly. |
| 6. Bible is to Christians as | (f) A patient is to hospital. |

C. Choose the correct match to the following from the given options :

1. Pig : Sty :: Aeroplane :

(a) Depot <input type="checkbox"/>	(b) Kennel <input type="checkbox"/>	(c) Hangar <input type="checkbox"/>	(d) Terminal <input type="checkbox"/>
------------------------------------	-------------------------------------	-------------------------------------	---------------------------------------
2. Flock : Sheep :: Brood :

(a) Kitten <input type="checkbox"/>	(b) Pups <input type="checkbox"/>	(c) Chickens <input type="checkbox"/>	(d) Colt <input type="checkbox"/>
-------------------------------------	-----------------------------------	---------------------------------------	-----------------------------------
3. Army : Soldier :: Galaxy :

(a) Planet <input type="checkbox"/>	(b) Satellites <input type="checkbox"/>	(c) Stars <input type="checkbox"/>	(d) Meteors <input type="checkbox"/>
-------------------------------------	---	------------------------------------	--------------------------------------
4. Food : Hunger :: Water :

(a) Liquid <input type="checkbox"/>	(b) Thirst <input type="checkbox"/>	(c) Solid <input type="checkbox"/>	(d) Body <input type="checkbox"/>
-------------------------------------	-------------------------------------	------------------------------------	-----------------------------------
5. Floor : Broom :: Teeth :

(a) Dentist <input type="checkbox"/>	(b) Paste <input type="checkbox"/>	(c) Brush <input type="checkbox"/>	(d) Gums <input type="checkbox"/>
--------------------------------------	------------------------------------	------------------------------------	-----------------------------------
6. Circle : Circumference :: Square :

(a) Area <input type="checkbox"/>	(b) Angle <input type="checkbox"/>	(c) Perimeter <input type="checkbox"/>	(d) Diagonal <input type="checkbox"/>
-----------------------------------	------------------------------------	--	---------------------------------------
7. Sri Lanka : Colombo :: India :

(a) Asia <input type="checkbox"/>	(b) Neighbour <input type="checkbox"/>	(c) New Delhi <input type="checkbox"/>	(d) Capital <input type="checkbox"/>
-----------------------------------	--	--	--------------------------------------
8. Nile : Egypt :: Thames :

(a) River <input type="checkbox"/>	(b) Russia <input type="checkbox"/>	(c) London <input type="checkbox"/>	(d) Country <input type="checkbox"/>
------------------------------------	-------------------------------------	-------------------------------------	--------------------------------------
9. Graceful : Clumsy :: Late :

(a) Kitchen <input type="checkbox"/>	(b) Food <input type="checkbox"/>	(c) Early <input type="checkbox"/>	(d) Cooking <input type="checkbox"/>
--------------------------------------	-----------------------------------	------------------------------------	--------------------------------------
10. Diet : Japan :: : Britain

(a) Country <input type="checkbox"/>	(b) Capital <input type="checkbox"/>	(c) Assembly <input type="checkbox"/>	(d) Parliament <input type="checkbox"/>
--------------------------------------	--------------------------------------	---------------------------------------	---



Brain Teasers

1. If it takes four men to dig two holes and two men to dig one hole, then how many men will it take to dig half a hole?

2. Aditya can always guess the score of a football game before the game begins. How can he do that?



3. There are five flies sitting on a table. You swat three. How many are left on the table?

4. What has two hands but never washes its face?

5. Some men have to shave 20 or 30 times a day. Is this true?



6. It travels around the world but stays in a corner. What is it?

7. Which are the two fruits that have the same set of letters in their names?



8. A farmer knows that 20 of his hens, housed in 3 coops, will hatch 30 eggs in 18 days. How long will it take for 30 hens, housed in 4 coops to hatch the same number of eggs?

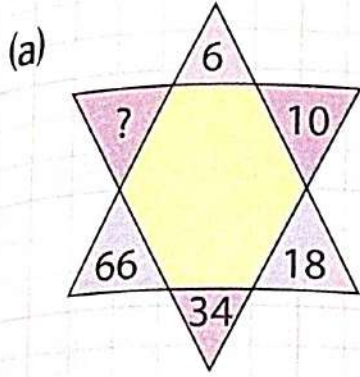
9. If you stood facing north, then what would be on your left hand?

10. Can a man in California marry his widow's sister?

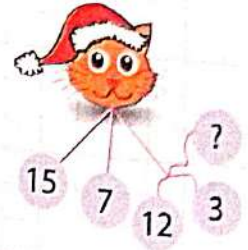


Co-relation

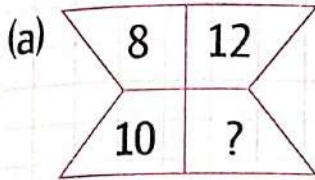
1. Insert the missing numbers in the following figures.

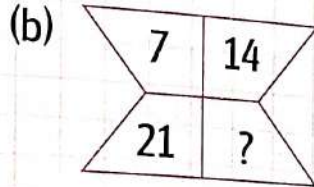


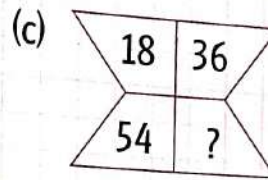
(b)

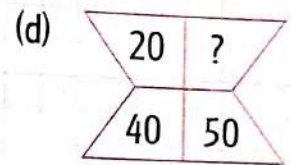


2. Fill in the missing numbers in place of the question marks.

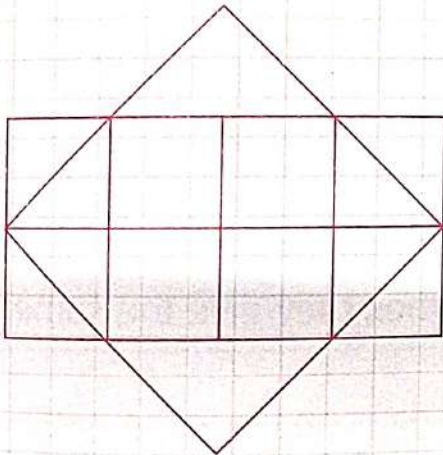








3. How many squares and triangles are there in the given figure?



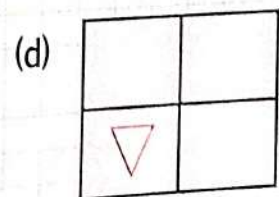
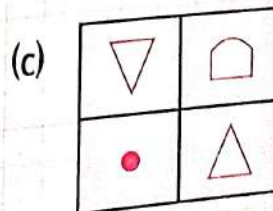
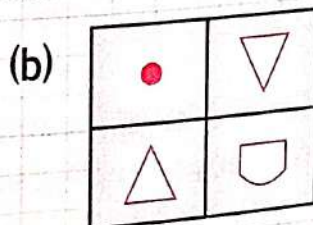
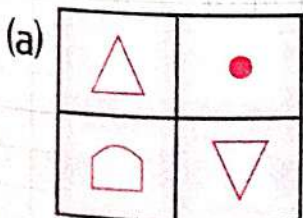
Squares :

Triangles :

4. Replace the question mark with the correct number.

2	6	8
14	22	?
58	94	152

5. Complete the last square of the sequence.



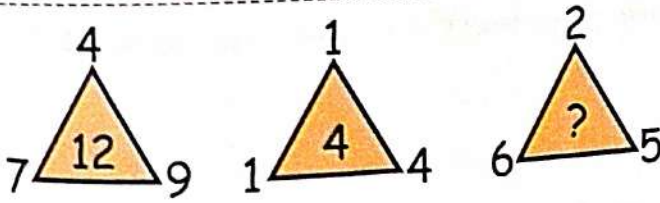


Mathemagic

1. My grandmother and grandfather's age is a two-digit and a three-digit number respectively. Both the values are consecutive odd numbers. How old are they?
2. When a clock strikes three, it takes three seconds. How long does it take to strike nine?
3. John Baird invented the television some time in the twentieth century. If the fourth digit of the year is the double of the third digit and the first digit is the half of the third digit, then what is the year of its invention?
4. How many times do you use the digit 1 while counting from 1 to 100?
5. There were some lotuses and some bees. When all the bees sat separately on each lotus, one bee was extra. When all the bees sat in a pair on each lotus, one lotus was extra. So, how many lotuses and bees were there?
6. Which digit is used the least number of times while counting from 1 to 100?
7. There are three consecutive numbers. When multiplied together, they give the same when added up. What are they?
8. Bhaskara-II wrote a famous book on mathematics and named it after his daughter. What was the book called?
9. 'All prime numbers except E are odd'. What is the value of E in this statement?
10. In the twentieth century, there is a year which does not change if viewed upside down. What is the year?

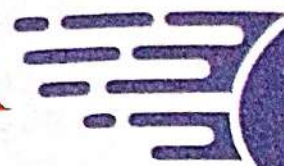


Apply your logic and answer these questions :

1. What is easy to climb- an oily pole or a rough pole?
.....
2. If the departure time of a flight is 7:45 am, then what time will it take off?
.....
3. Which is easier to tear- wet paper or dry paper?
.....
4. There are two glasses- one is filled to the brim with water and the other is half filled with water. In which glass will a piece of wood float?
.....
5. An aircraft crashes on the India-Sri Lanka border. Where will the survivors be buried?
.....
6. Seven men stood under an open umbrella. But none of them got wet. How?
.....
7. A doctor advised a patient to take one tablet at 30 minute intervals. How much time will the patient take to finish 3 tablets?
.....
8.  Which number replaces the question mark?
.....
9. What is Mr Rohit Sharma's wife's husband's name?
.....
10. Anne, Olivra and Jenita are daughters of Mr Jack, Mr Brown and Mr Ran. Four of these people are playing badminton doubles. Mr Ran's daughter and Mr Jack are partners. Anne's father and Mr Brown's daughter are also partners. Who is Anne's father?
.....



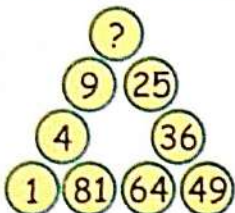
Quick Thinking



Answer the following questions as quickly as you can :

1. If Veronica has 5 friends and each friend has 5 other friends, then how many friends are there altogether?
.....
2. In 30 years, I will be 4 times my present age. How old am I?
.....
3. Two daughters and two mothers are sitting in a room. But there are only three women in the room. How?
.....
4. What will you find twice in an apple, thrice in a pineapple but none in an orange?
.....
5. Why do socks always have holes?
.....
6. How is Rosie's husband's mother's son's son related to Rosie?
.....
7. A spider is at the bottom of a 30 feet wall. Each day it crawls up 3 feet and slips back by 2 feet. If this action is repeated each day, then how many days will the spider take to reach the top of the wall?
.....

8. Which number replaces the question mark?



.....
.....

9. You are running a race. If you overtake the second person, then what position are you in?
.....
10. Find the familiar phrase, saying or name in this arrangement of letters: TIMING TIM ING?
.....



Spot The Difference

Five figures are given in each case. Four out of these five figures are either similar in some way or they form a series. One of the figures is different from the other four figures. Find the odd figure out:

	(a)	(b)	(c)	(d)	(e)	
1.						<input type="checkbox"/>
2.						<input type="checkbox"/>
3.						<input type="checkbox"/>
4.						<input type="checkbox"/>
5.						<input type="checkbox"/>
6.						<input type="checkbox"/>

Fact File

An alphabetic puzzle (also sometimes known as a cryptarithm) is a type of puzzle where words are put together into an arithmetic formula such that digits can be substituted for the letters to make the formula true.

Quick Test

4

Based on Learning Skills

A. Tick (✓) the correct option :

- Imagine you are at a dinner party. You need a particular dish that is far from your side of the table. You will :
(a) ask the nearest person to pass it.
(b) lean over and take it.
(c) decide not to have that dish.
- Gautama Buddha was the founder of religion.
(a) Islam (b) Jainism (c) Buddhism
- Flock : Sheep :: Brood :
(a) Kitten (b) Pups (c) Chickens
- In 30 years, I will be 4 times my present age. How old am I?
(a) 10 years (b) 12 years (c) 14 years

B. Fill in the blanks :

- The is the holy book of Christian religion.
- The different postures adopted during yoga are called
- Wrestling is to ring as race is to
- An alphametic puzzle is also known as

C. Solve the following :

- How many times do you use the digit 1 while counting from 1 to 100?
- In the twentieth century, there is a year which does not change if viewed upside-down. What is the year?

D. Identify the following pictures and write their names :



Half-Yearly Assessment Paper

(Based on CBE)

A. Tick (✓) the correct option :

- The prairie dog is not a dog but actually a :
 (a) rodent (b) marsupial
 (c) lizard
- The fruit of which plant is full of Vitamin C?
 (a) Tulsi (b) Amla
 (c) Brahmi
- Which is the highest rank in Indian Navy?
 (a) Vice-Admiral (b) Admiral
 (c) Commander
- In which country is Burj Khalifa located?
 (a) Iran (b) Syria (c) UAE
- In which language was Jana Gana Mana originally written?
 (a) Sanskrit (b) Bengali (c) Hindi

B. Fill in the blanks :

- is made into lanterns on the festival of Halloween.
- has a jug-shaped leaves.
- founded the Bachpan Bachao Andolan.
- is the hobby of collecting coins of different countries.
- RBI was established on

C. Match the following :

- | | |
|-------------------------------|------------------------------|
| 1. Shah Jahan | (a) Atlas |
| 2. A book of maps | (b) India |
| 3. Rome wasn't built in a day | (c) Taiwan |
| 4. Hindustan Times | (d) Mughals (Medieval India) |
| 5. Formosa | (e) Great things take time |

D. Identify the following pictures and write their names :



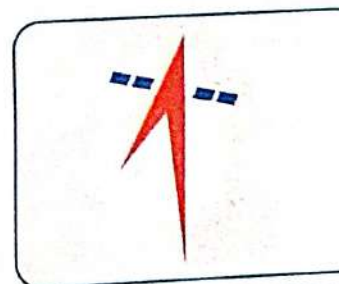
1



2



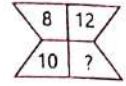
3



4

A. Tick (✓) the correct option :

- Which astronomical body was named after Edmond Halley?
 (a) Comet (b) Asteroid (c) Meteor
- With which sport would you associate the term 'Sudden Death'?
 (a) Football (b) Cricket (c) Hockey
- Which number will come in place of question mark?
 (a) 14 (b) 16 (c) 10
- Which religion has 24 Tirthankaras?
 (a) Buddhism (b) Jainism (c) Judaism
- Which is the only even-prime number?
 (a) 0 (b) 2 (c) 3



B. Fill in the blanks :

- is an inability to correctly recognise colours.
- In, extracts from plants are used to prepare medicines.
- is named after the Roman God of Sea.
- was the book on Mathematics, Bhaskara-II named after his daughter.
- Malayalam is to Kerala as is to Odisha.

C. Match the following :

- | | |
|-----------------------|------------------|
| 1. Bite nails | (a) Garage : Car |
| 2. Superman | (b) Perplexity |
| 3. Food digestion | (c) Dislike |
| 4. Wrinkle nose | (d) Clark Kent |
| 5. Hangar : Aeroplane | (e) Vajrasana |

D. Identify the following pictures and write their names :



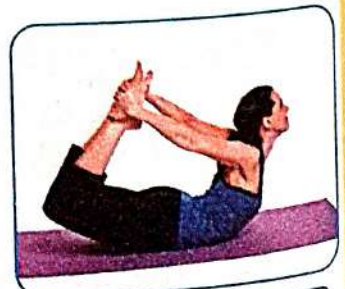
1



2



3



4

Olympiad Model Paper

A. Tick (✓) the correct option :

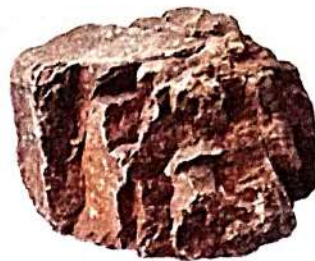
1. What is the common character of organisms listed below?

Starfish, Spider, Ant, Amoeba, Octopus

- (A) They all lay eggs.
- (B) They all have scales on their body.
- (C) They all live in water.
- (D) They all have backbone.

2. Look at the given picture. Which of the following best classifies the type of rock shown in the picture?

- (A) Sedimentary
- (B) Volcanic
- (C) Igneous
- (D) Metamorphic



3. He was a Bengali poet, artist, playwright, novelist and composer, whose work reshaped Bengali literature and music. He became Asia's first Nobel Laureate to win the 1913 Nobel Prize in Literature. Who was he?

- (A) Abhijit Banerjee
- (B) Har Gobind Khorana
- (C) Rabindranath Tagore
- (D) C. V. Raman

4. Identify the name of the given yogasana.

- (A) Bhujangasana
- (B) Halasana
- (C) Tadasana
- (D) Pranayama



5. When your teacher is teaching in the class then you should:

- (A) Listen attentively
- (B) Make fun of him/her
- (C) Talk to your friends
- (D) Do your homework

6. The sportsperson shown in the picture is associated with which sport?

- (A) Cricket
- (B) Billiards
- (C) Javelin Throw
- (D) Football



7. Which of the following is not an example of verbal communication?

- (A) Interview
- (B) Meeting
- (C) Telephone
- (D) Writing

8. How many 7's are there in the given number series, each of which is immediately preceded by an even number but not immediately followed by any odd number?

4 3 7 5 2 3 7 2 1 3 6 7 5 4 2 7 4 2 7 1 2 2 7 4 5 7 2

- (A) One (B) Two
 (C) Three (D) Four
9. What should we do to protect and conserve the environment?
 (A) Plant trees.
 (B) Burn garbage in open fields.
 (C) Always use personal cars to travel.
 (D) Switch ON all the lights even if not required.
10. Find the figure from the options which completes the pattern in Fig (x).

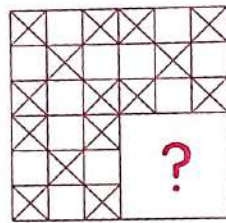
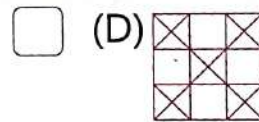
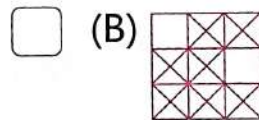
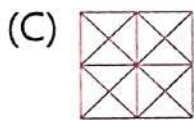
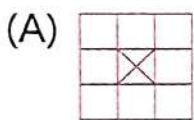
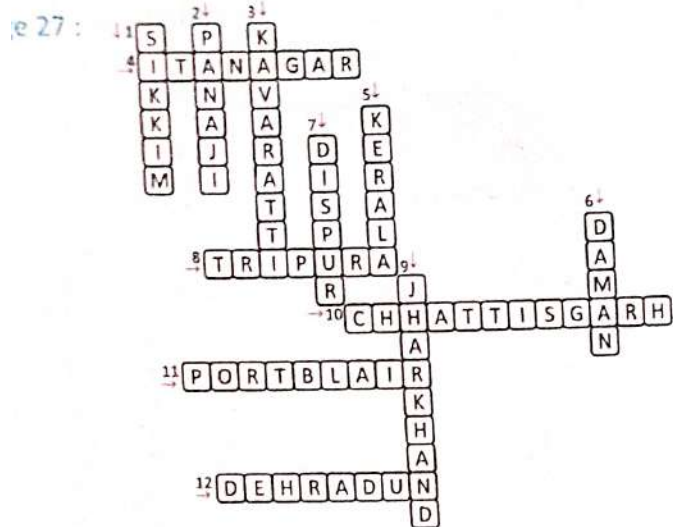


Fig (x).



SPACE FOR ROUGH WORK

- Page 26 : 1. Bhikaji Cama 2. Pingali Venkayya 3. Sarnath
4. Aanandamath 5. Bengali 6. Two 7. Sixteen
8. Sher Shah Suri



- Page 28 : 1. Rani Lakshmi Bai 2. Subhas Chandra Bose
3. Nana Sahib 4. Bhagat Singh 5. Lal Bahadur
Shastri 6. Dadabhai Naoroji 7. Kittur Rani
Chennamma 8. Gopal Krishna Gokhale
9. Vinoba Bhave

- Page 29 : 1. Bharat Ratna 2. Padma Vibhushan
3. Gandhi Peace Prize 4. National Bravery Award
5. Param Vir Chakra 6. Dhyan Chand Award
7. Sahitya Akademi Award

- Page 30-31 : 1. Rabindranath Tagore 2. C.V. Raman
3. Har Gobind Khorana 4. Mother Teresa
5. Subrahmanyan Chandrasekhar 6. Amartya Sen
7. Venkatraman Ramakrishnan 8. Kailash
Satyarthi 9. Abhijit Banerjee

- Page 32 : 1. Central Board of Secondary Education
2. Reserve Bank of India 3. National Cadet Corps
4. Central Bureau of Investigation 5. National
Council of Educational Research & Training
6. Union Public Services Commission

Page 33 :

Army	Navy	Air Force
Major 7	Commander 6	Air Commodore 4
Brigadier 4	Lieutenant Commander 7	Air Marshal 2
Lieutenant 9	Admiral 1	Flying Officer 9
Lieutenant Colonel 6	Captain 5	Squadron Leader 7
Colonel 5	Sub-Lieutenant 9	Wing Commander 6
Captain 8	Vice Admiral 2	Flight Lieutenant 8
Lieutenant General 2	Commodore 4	Group Captain 5
General 1	Lieutenant 8	Air Chief Marshal 1
Major General 3	Rear Admiral 3	Air Vice Marshal 3

- Page 34 : 1. (a) 2. (h) 3. (c) 4. (b) 5. (f) 6. (d) 7. (e) 8. (g)

- Page 35 : 1. (c) India 2. (b) Romania 3. (a) France 4. (b) Nepal
5. (a) USA 6. (b) England 7. (c) UAE 8. (c) Vatican City

- Page 36 : 1. Sri Lanka 2. Iran 3. Zaire 4. France
5. Bangladesh 6. Tanzania 7. Jakarta 8. Beijing
9. Iraq 10. Yangon 11. Oslo 12. Istanbul
13. Zimbabwe 14. New York 15. Ethiopia 16. Taiwan

- Page 37 : 1. United Nations Children's Fund. 2. United Nations
3. Amnesty International 4. World Wide Fund for
Nature 5. International Monetary Fund
6. World Health Organization

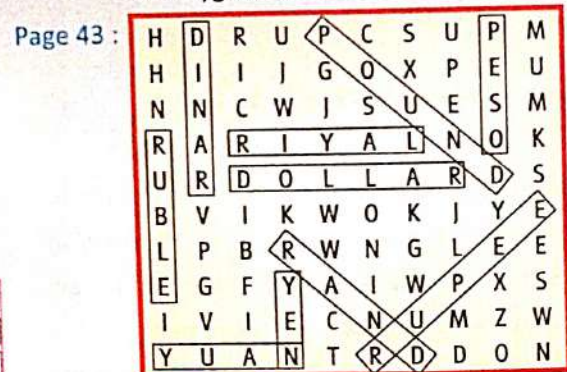
- Page 38 : A. Pacific Ocean B. Atlantic Ocean C. Indian Ocean
D. Antarctic Ocean E. Arctic Ocean

- Page 39 : 1. Netherlands 2. Iraq 3. Egypt 4. India 5. England
6. Australia 7. Russia 8. France 9. USA 10. Austria
11. India

- Page 40 : 1. Gurudev 2. The Bard of Avon 3. Iron Man of India
4. Little Corporal 5. Iron Lady 6. Netaji 7. Bloody Mary
8. Che 9. Bangabandhu 10. Haryana Hurricane
11. Flying Sikh 12. Payyoli Express



- Page 42 : 1. Ferdinand Magellan 2. Neil Armstrong 3. Valentina
Tereshkova 4. Sir Edmund Hillary and Tenzing Norgay
5. Yuri Gagarin 6. Sirimavo Bhandaranaike 7. Sunita
Williams 8. Roald Amundsen 9. Amelia Earhart
10. Trygve Lie.



- Page 44 : **Quick Test-2**

A. 1. a 2. b 3. b 4. a

B. 1. Dehradun 2. Mother Teresa 3. Mount Everest
4. Iron Lady


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

D. 1. Gopal Krishna Gokhale 2. Param Vir Chakra
3. Pashupatinath Temple

- Page 46 : 1. Archery 2. Field Hockey 3. Kabaddi 4. Cricket
5. Volleyball 6. Baseball 7. Lacrosse 8. Golf 9. Football
10. Table Tennis

- Page 47 : 1. MARTINA NAVRATILOVA 2. ANDRE AGASSI
3. RAFAEL NADAL 4. STEFFI GRAF 5. NOVAK
DJOKOVIC 6. SERENA WILLIAMS 7. BORIS BECKER
8. PETE SAMPRAS

- Page 48 : 1. India 2. Jawaharlal Nehru 3. Ever Onward
4. Bright full rising sun with interlocking rings
5. 11 countries and 489 participants
6. Beijing Asiad 1990 7. New Delhi Asiad, 1982
8. First Asiad in this millennium
- Page 49 : 1. Rohit Sharma 2. Mary Kom 3. LeBron James
4. Neeraj Chopra 5. Sebastian Vettel
6. Usain Bolt 7. Lin Dan 8. Pankaj Advani
- Page 50 : 1. a 2. a 3. b 4. a 5. a 6. b 7. a 8. b 9. a 10. b
- Page 51 : 1. Orchestra 2. Solo 3. Opera 4. Duet 5. Lyricist
6. Carol 7. Choir 8. Chorus 9. Composer
10. Conductor
- Page 52 : 1. b 2. a 3. d 4. f 5. c 6. e 7. h 8. g
- Page 53 : 1. Scooby Doo 2. Dexter 3. Yogi Bear 4. Popeye
5. Tom & Jerry 6. Fred Flintstone 7. Bugs Bunny
- Page 54 : 1. Bhavai 2. Nautanki 3. Yakshagana 4. Tamasha
- Page 56 : 1. Anaemia 2. Mumps 3. Bronchitis 4. Eczema
5. Diphtheria 6. Tetanus 7. Cancer
8. Colour Blindness 9. Malaria 10. Cataract
- Page 57 : 1. Acupuncture 2. Ayurveda 3. Naturopathy
4. Unani 5. Homeopathy
- Page 58 : 1. b 2. a 3. l 4. j 5. h 6. i 7. d 8. k 9. g 10. c 11. f
12. e
- Page 59 : 1. Albert Einstein 2. Galileo Galilei
3. Alexander Graham Bell 4. Archimedes
5. Thomas Alva Edison 6. Vikram Sarabhai
7. Sir Isaac Newton
- Page 60 : 1. RAKESH SHARMA 2. ALEXEY LEONOV
3. NEIL ARMSTRONG 4. SUNITA WILLIAMS
5. LAIKA 6. YURI GAGARIN
7. VALENTINA TERESHKOVA
- Page 61 : 1. JUPITER 2. URANUS 3. MERCURY 4. EARTH
5. NEPTUNE 6. MARS 7. VENUS 8. SATURN
- Page 62 : 1. a 2. c 3. a 4. b 5. c 6. c 7. c 8. a
- Page 63 : 1. Password 2. Domain 3. Blog 4. Webcam
5. Hacker 6. Firewall 7. E-commerce 8. Cookies
9. Browser 10. CPU
- Page 64 : **Quick Test-3**
A. 1. b 2. a 3. c 4. b
B. 1. Haemoglobin 2. Virus 3. Major Dhyan Chand
4. India
C. 1. c 2. d 3. a 4. b
D. 1. Rakesh Sharma 2. Baseball 3. Neeraj Chopra
- Page 66-67 : 1. c 2. b 3. a 4. b 5. c 6. a
- Page 68 : 1. Salute 2. Shaking hands 3. V-sign 4. Fingers
crossed 5. Thumbs up 6. Thumbs down
- Page 69 : 1. Sikhism 2. Hinduism 3. Buddhism 4. Jainism
5. Christianity 6. Islam 7. Judaism 8. Zoroastrianism
- Page 70 : 1. d 2. j 3. n 4. b 5. c 6. l 7. o 8. m 9. e 10. h 11. g
12. k 13. i 14. a 15. f

- Page 71 : 1. Chakrasana 2. Trikonasana 3. Padmasana
4. Mayurasana 5. Dhanurasana 6. Vajrasana
- Page 72-73 : A. 1. bray 2. big toe 3. Odiya 4. Fawn 5. happy
6. track
B. 1. (f) 2. (c) 3. (d) 4. (b) 5. (e) 6. (a)
C. 1. (c) 2. (c) 3. (c) 4. (b) 5. (c) 6. (c) 7. (c) 8. (c) 9.
(c) 10. (d)
- Page 74 : 1. No, such things as half a hole, it's either a hole
or it isn't. 2. He says that the score before every
football game begins is 0-0. 3. I swat three flies, so
they would remain on the table. The rest would
have flown away immediately. 4. A clock. 5. Yes,
barbers, 6. A stamp;
7. Lemon & Melon; 8. You can't shorten the
process of egg-hatching by increasing the number
of chickens. Therefore, 30 hens will also need 18
days to hatch their eggs. 9. West; 10. No, the man
is dead if his wife is widow
- Page 75 : 1. (a) 130; (b) 17; 2. (a) 14; (b) 28; (c) 72; (d) 30;
3. Squares-12, Triangles-20; 4. 36,
5. 
- Page 76 : 1. 99 and 101; 2. 12 seconds; 3. 1924; 4. 21 times;
5. 3, 4; 6. 0 (zero); 7. 1, 2, 3; 8. Lilavati; 9. 2;
10. 1961
- Page 77 : 1. A rough pole 2. 7:45 am 3. Wet Paper 4. In both
the glasses 5. The survivors are not buried-they
are alive 6. It was not raining 7. 60 minutes
8. $9, 6+5=11-2=9$ 9. Rohit Sharma 10. As there is
no any specific father daughter combination,
Mr Brown is not Anne's father, Anne can play with
Mr Jack so he cannot be her father. Therefore,
Mr Ran is Anne's father.
- Page 78 : 1. 31 friends 2. 10 years 3. The three women are: a
grandmother, mother and daughter (two mothers
and two daughters) 4. The letter 'p' 5. So that we
can put our feet in them 6. He is Rosie's son 7. On
the 28th day 8. 16, All are square numbers 9. If you
have thought of answer first you are wrong! You
are in the second position 10. Why are you asking
this question again? You've already received a
correct answer.
- Page 79 : 1. (e); 2. (b); 3. (c); 4. (a); 5. (d); 6. (c)
- Page 80 : **Quick Test-4**
A. 1. a 2. c 3. c 4. a
B. 1. Bible 2. asanas 3. track 4. cryptarithm
C. 1. 21 times 2. 1961
D. 1. Hinduism 2. Chakrasana 3. Sikhism
- Page 83 : **Olympiad Model Paper**
1. (D) 2. (A) 3. (C) 4. (B) 5. (A) 6. (B) 7. (D) 8. (B)
9. (A) 10. (D)



United Nations

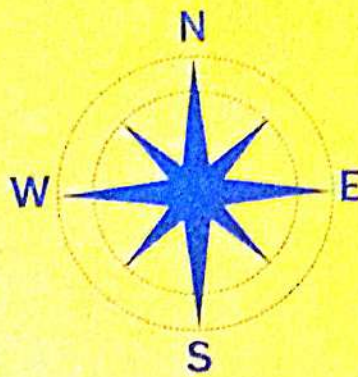
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