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TEST PAPER – I

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Answer these questions.

- Q1. Who was the first Indian to climb Mount Everest without oxygen? Phu Dorjee
- Q2. Who won the Nobel Prize for Economics in 1998? Amaritya Sen
- Q3. By what other name is the German shephard also known? Alsatian
- Q4. **Sorpotel** and **bebinca** are delicacies from which state of India? Goa
- Q5. Which is the oldest known breed of domesticated dog? Saluki
- Q6. What is the name of the trophy given to the winner of the women's final at Wimbledon? Venus Rosewater Dish
- Q7. Name the world's largest coral reef system. Great Barrier Reef
- Q8. This creature found in North and Central America is an expert at making tunnels resembling honeycombs. Name it. gopher
- Q9. Which element with the symbol 'Cu' is used to make electric wires and cables? Copper
- Q10. What is the full form of MRI? Magnetic Resonance Imaging
- Q11. In 2018, who received the National Film Award for best actress? Sridevi
- Q12. In American English, what is the bonnet of a car called? hood
- Q13. How many Grand Slams tournaments are there in a calendar year? four
- Q14. Is Godwin Austen the tallest mountain peak in the world? No, Mt. Everest
- Q15. How many asans are there in the Surya Namaskar? Twelve

Sub. teacher's name → Kumari Archana

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TEST PAPER – II

Tick (✓) the correct answers.

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- Q1. Who is the author of 'Pygmalion'?
- a. Charles Dickens
b. Samuel Beckett
c. William Shakespeare
d. George Bernard Shaw
- Q2. Who among these has not won the Bharat Ratna?
- a. J R D Tata
b. C V Raman
c. Nelson Mandela
d. Rabindranath Tagore
- Q3. Who won the Best Actress award for her role in *Tumhari Sulu* at the 2018 Filmfare Awards?
- a. Madhuri
b. Vidya Balan
c. Kajol
d. Urmila
- Q4. What is the correct meaning of the word 'Bemuse'?
- a. amuse
b. silly
c. puzzle
d. hurt
- Q5. Which of these is a breed of dog?
- a. cricketer
b. boxer
c. wrestler
d. sprinter
- Q6. The emission of which of these gases causes acid rain?
- a. sulphur dioxide
b. ozone
c. carbon monoxide
d. hydrogen sulphide
- Q7. Which of these is a small, short-tailed, thickset rodent related to the voles, found in the Arctic tundra?
- a. lemming
b. lemur
c. mongoose
d. moose
- Q8. Which of these words means 'to unite'?
- a. karate
b. team
c. yoga
d. judo
- Q9. Nabin Chandra Das of Kolkata is believed to have invented which of these?
- a. rasagulla
b. pedha
c. laddoo
d. barfi
- Q10. Which of these tournaments is played on a red, clay court?
- a. Wimbledon
b. French Open
c. Australian Open
d. US Open

Sub teacher's name → Kumari Archana



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TEST PAPER – III

Answer these questions.

- Q1. Who was the first Indian woman to be crowned Miss Universe? *Sushmita Sen*
- Q2. The national rugby team of which country is called All Blacks? *New Zealand*
- Q3. What is the study of birds called? *Ornithology*
- Q4. What is the rhythmic contraction and relaxation of the heart called? *heartbeats*
- Q5. Which is the largest rodent in the world? *Capybara*
- Q6. What is the other name of the Dodda Alada Mara? *Big Banyan Tree*
- Q7. Correct the sentence: She distributed sweets amidst her friends.
She distributed sweets amongst her friends.
- Q8. Which dog breed is the fastest? *Greyhound*
- Q9. In which continent is the Great Barrier Reef located? *Australia*
- Q10. Who became India's youngest Prime Minister? *Rajiv Gandhi*
- Q11. Name the main court of the French Open. *Court Phillippe Chatrier*
- Q12. Is silver used in developing photographic negatives? *True*
- Q13. I have taken up very little (few/little) of your time.
- Q14. What is a sphygmomanometer used to measure? *blood pressure*
- Q15. Who was the greatest actor of the Silent Era? *Charlie Chaplin*



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29. The Better Thing to Do

Think and answer these questions.

- You are in a car with your parents and your twelve-year-old brother. Where should your brother be seated?
 - in the back seat
 - in the front seat
- You accidentally broke a cup in a store but no one noticed. You do not have enough money to pay for it. What will you do?
 - quietly slip away
 - inform the store manager and promise to bring the money the next day
- You are on a school picnic when suddenly you realise that you have moved away from your classmates and cannot find them. What will you do?
 - try to find your way back
 - panic and start crying
- You want a pet dog but your mother objects saying that you are not responsible enough to look after it. What would you do?
 - keep nagging until your mother gives in to your demand
 - try to show your mother that you are a responsible individual by doing chores around the house
- You have been selected for your class play as the lead actor. Your best friend wanted that role and has now stopped talking to you. What would you do?
 - play the lead role and try to sort the issue with your friend by talking to her/him
 - give up the role for your friend



Grow with Derek

Discuss the above situations with your friends and write down their different responses in your notebook.

Sub. teacher's name → Kumari Archana



30. Keeping Fit with Yoga

World Yoga day is celebrated every year on 21 June. Yoga is an ancient practice that helps keep the body and mind healthy and strong.

The word 'yoga' means 'to unite'.

Yoga has many benefits. It:

- makes us physically strong.
- makes our bodies more flexible.
- improves the functioning of the immune system.
- improves our posture.
- improves blood circulation.
- results in healthy and glowing skin.
- improves the overall functioning of the organs.

So how does yoga helps to improve our personality?

- Yoga helps us to relax and alleviate stress.
- Yoga improves our power of concentration and self-control.
- Yoga helps us to think clearly.
- Yoga improves our memory.

Surya Namaskar

Surya Namaskar or Sun Salutation is a set of 12 powerful yogaasans (postures) which helps us to revitalise the body and mind. It provides cardiovascular workout and increases energy levels. Start tomorrow itself. Wake up 15 min earlier than you usually do and do the Surya Namaskar every morning.

These are the asanas.

1.



Pranamasan (prayer pose)

Stand upright with your feet together. Inhale deeply, expanding your chest, and relax your shoulders. While you inhale, raise your arms from the sides and as you exhale, bring your palms together in front of your chest in prayer position.

Know with Derek

The positions or postures in yoga are called asans. The Pashupati Seal, found during the excavation of the site of Mohenjo-Daro, is believed to depict Shiva in a yoga posture.

Sub. teacher's name → Kumari Archana

2. **Hasta Uttanasan (raised arms pose)**

Inhale and raise your arms up and back. Keep your biceps close to your ears. The effort is to stretch the entire body from the heels to the tips of the fingers.



3.



Hastapadasan (standing forward bend)

Breathe out and bend forward from the waist. Go down and touch the ground with the palms of your hands. Keep your spine erect. Do this as you exhale slowly and completely.

4.



Ashwa Sanchalanasan (equestrian pose)

Breathe in and push your right leg back as far as possible. Ensure that the left foot is between the palms. Put your right knee on the floor slowly and look up.

5.

Dandasana (stick pose)

As you inhale, take your left leg backwards aligning your entire body parallel to the ground. Keep your arms perpendicular to the floor.



6.

Ashtanga Namaskar (salute with eight parts)



Mildly bring your knees down to the floor and exhale. Now bring your chin and chest to rest on the floor. Keep your hips raised. So the eight parts—your two hands, two knees, two feet, chin and chest—should rest on the floor.

7.

Bhujangasan (cobra pose)

Slide forward and raise your chest up as you inhale. You may keep your elbows bent with the shoulders away from the ears. Look up while performing this asana.





8.



Adho Mukh Svanasan (downward facing dog pose)

Breathing out, lift the hips and tailbone up to bring your body into an inverted 'V' position.

9.

Ashwa Sanchalanasana (equestrian pose)

Return to the ashwa sanchalanasana. This time bring the right foot forward in between the palms. Stretch the left leg behind with the left knee touching the ground and look upwards.



10.



Hastapadasana (standing forward bend)

Now, slowly bring your left foot forward, next to the right foot as you breathe out. Keeping the position of your hands intact, lift yourself up to steadily enter hasta padasana.

11. **Hasta Uttanasana (raised arms pose)**

Now inhale, raise your hands upward and bend backward a little. The idea is to stretch up more than stretching backward.



12.



Tadasana (Mountain pose)

As you exhale, straighten the body and bring your hands down. Relax in this position and feel the positive sensations in your body.

Know with Derek

Swami Vivekananda is one of the most prominent figures who introduced philosophies like Vedanta and Yoga to the countries of the western world.

Sub. teacher's name → Kumari Archana

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Life Skills and Value Education

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31. Dos and Don'ts While Eating

Different countries and different cultures have different basic rules when it comes to eating.

Here are a few standard rules.

- When eating, concentrate on eating. Do not try to read a book, study, watch television or talk on the phone at the same time. There is a specific time to do each work.
- Whether sitting cross-legged on the floor or on a chair, remember to always keep your back straight.
- Do not overfill your mouth with food. While eating, chew your food properly. Otherwise, large bits could get stuck in your throat and cause you to choke.
- Do not talk with your mouth full. Finish what you are chewing before you answer a question that is put to you.
- Never burp or blow your nose while eating.
- Remember to say 'Thank you' whenever someone serves you.
- Do not eat too fast. It could lead to a bout of hiccupping and indigestion. Wait a few seconds before taking the next bite.
- Do not overeat. It is very bad for your health!
- Do not go to bed immediately after a meal. Your body needs time to digest the food.
- Drink a full glass of water half an hour after your meal—not immediately. Some of us have the habit of drinking water before and during a meal. As far as possible, restrict yourself to just a couple of sips, if necessary, during your meal.

Sub. Teacher's name → Kumari Archana

class → VII

To learn Sub. G.K.

Four tips on using a napkin:

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1. Place the napkin on your lap after being seated—not round your neck. In India, many of us enjoy eating with our hands. When at a restaurant, please ask for a finger bowl or excuse yourself and go to the wash-basin.
2. Do not wipe your soiled hands on the napkin or rinse your hand in your plate. If you are eating with cutlery, place the spoon and fork side by side on the plate at a 4 o'clock angle after you have finished.
3. If you need to excuse yourself during a meal, place the napkin to the left of the plate and not on the chair.
4. At the end of the meal, the napkin is placed neatly to the right of the plate (not refolded, but not crumpled either).



• Know with Derek

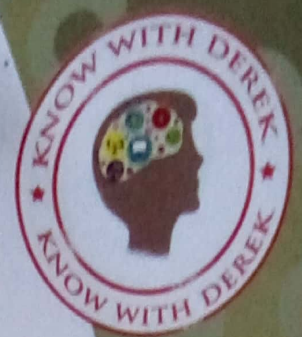
In Japan, people should place the chopsticks together on the table rather than sticking it upright on the rice bowl between meals. This is because during a Japanese funeral a rice bowl with chopsticks sticking upright is placed near the deceased's coffin.

Sub. Teacher's name → Kumari Arichana

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22. Codes

Choose the correct answers.

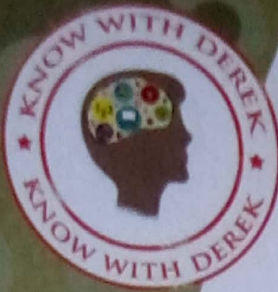
- In a certain code language, if HORSE is written as FQPUC, then how will you write BASKET?
 a. DCQNCV b. ACQMCV
 c. ZCQMCV d. MCVZCQ
- In the word APPLE, how many letters occupy the same position as they occupy in the English alphabet?
 a. 1 b. 2 c. 3 d. none
- If you take out the name of an animal from the word PIRATE, the name of which dessert will be left?
 a. pat b. nut c. pie d. tea
- If the word ABOLISHMENT is arranged in an alphabetical order, which letter would be right in the middle?
 a. I b. L c. M d. O
- If you take out the word LIST and then the name of an ornament from the word BLISTERING, how many letters will be left?
 a. 4 b. 3 c. 2 d. 1
- In the name of how many months will you find only one vowel?
 a. 3 b. 5 c. 8 d. none
- Which letters will logically replace the question mark in the following sequence? ZA, YC XE ? VI UK
 a. UF b. TL c. WG d. VD
- In a certain code language, if LANGUAGE is written as LEAGNAGU, how will you write SEMOLINA in that language?
 a. SLAMENOI b. SOLMENAI c. SMLNEOIA d. SAENMIOL



Know with Derek

The **Morse code** is a kind of code language that was used widely in telecommunication. It was also used in aviation and by the navy. The most commonly used Morse code is SOS.

Sub. teacher's name → Kumari Archana



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Thinking and Number Skills

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23. Brain Teasers

Answer these questions.

1. A dog had three puppies named Tommy, Pommy and Johny. What was the mother's name.

What

2. A boy and a girl born on the same day of the same year with the same parents are not twins. How is this possible?

They are two of a set of triplets or more.

3. If a man's peacock laid an egg just six inches inside his neighbour's plot, who would legally own the egg?

Peacocks do not lay eggs.

4. Which of the following letter designs is not like the other five?
Y E N F A Z

E (other letters are made of three lines)

5. Mohan and his mother and father went out in the rain but only two of them got their hair wet. Why?

His father was bald.

6. A boy and a doctor were fishing. The boy is the doctor's son but the doctor is not the boy's father. Who is the doctor?

The boy's mother.

7. Which word if pronounced right is wrong but if pronounced wrong is right?

The word 'wrong'



Know with Derek

Our brain's biggest enemies are Alzheimer's, Huntington's disease and multiple sclerosis. These diseases harm our brain by making it unable to think, reason and remember.



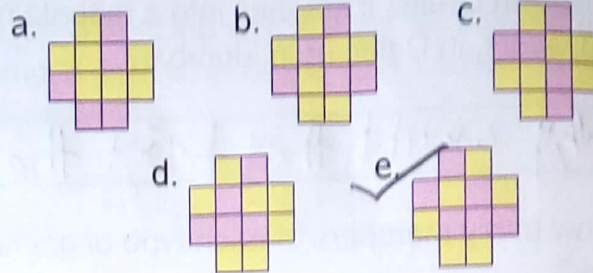
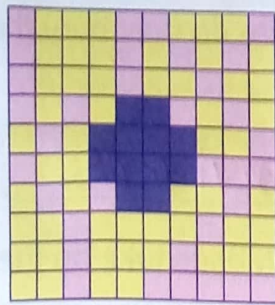
24. Non-Verbal Reasoning

Solve these problems.

1. Which letter will replace the question mark?



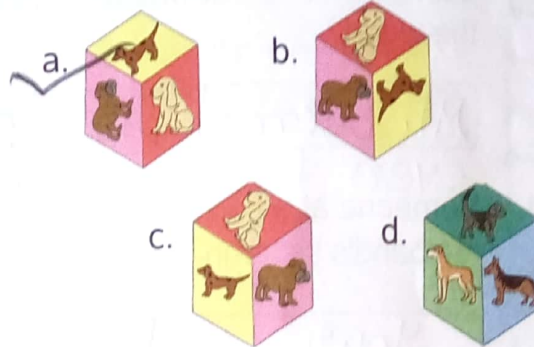
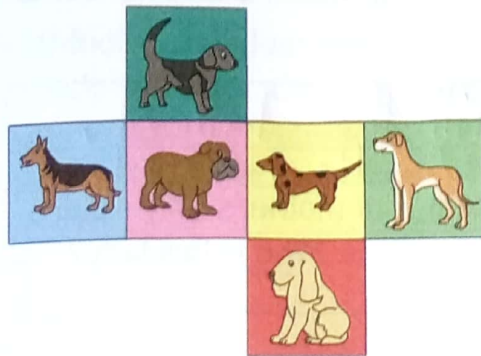
2. Which segment will fill the gap to complete this puzzle?



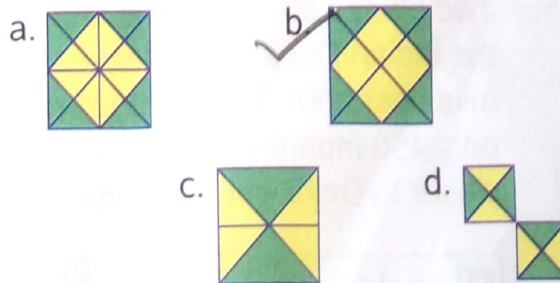
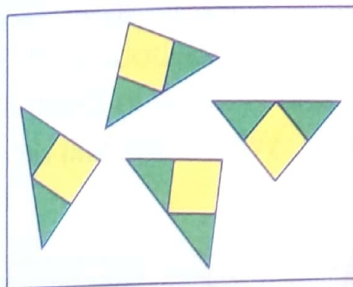
3. Which number will replace the question mark?



4. Which picture cube does this shape make?



5. Which shape will you get by joining these figures?



Grow with Derek

Play Sudoku, Tetris and jigsaw puzzles to improve your non-verbal reasoning power.

Sub. Teacher's name → Kumari Archana

25. Think Before You Answer

"Riddle me this, riddle me that; who's afraid of the big, black bat—
I will never forget this immortal line spoken by The Riddler, in
Batman. Riddles have always intrigued me!"



1. There is a plane travelling from Delhi to Mumbai at 300 mph, but unfortunately just as it reaches the Western Ghats, it crashes into a mountain. Where do they bury the survivors, in Delhi, or in Mumbai?

Why would they bury the survivors.

2. How many members of each type of animal did Moses take on the ark?

It was not Moses - it was Noah

3. Before Mt. Everest was discovered, which was the tallest mountain in the world?

Mt. Everest was still the tallest, even before it was discovered.

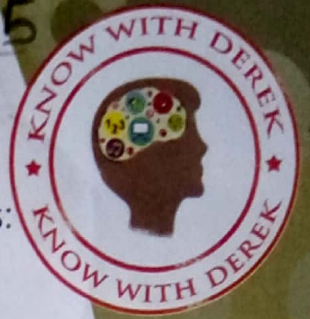
4. Someone at a party introduces you to your mother's only sister's husband's sister-in-law. He has no brothers. Who is this lady?

Your mother

5. Two planes take off at the same exact moment. They are flying across the Indian Ocean. One leaves Delhi and is flying to Melbourne at 500 miles per hour. The other leaves Melbourne and is flying to Delhi at only 450 mph (because of a strong head wind). Which one will be closer to Delhi when they meet?

They will both be at the same distance from Delhi when they meet.

Sub. teacher's name → Kumari Anshu



6. A man and his son met with a terrible accident when driving home from a cricket game. The man is taken to the emergency room for treatment and the boy is taken straight to the operating table. The surgeon comes over to the operating table, sees the boy and says: "I cannot operate on this patient, he's my son!" How can this be?

The surgeon is his mother

7. Johnny's mother had three children. The first child was named April. The second child was named May. What was the third child's name?

Johnny

8. If, having only one match, on a freezing winter day, you entered a room which contains a lamp, a kerosene heater and a wood burning stove, which should you light first?

The match of course

9. A man was critically wounded during a vicious fight; in 2007, he died and was buried in 2006. How is this possible?

The dates are 2007 BC and 2006 BC

10. A 10-foot rope ladder whose rungs are 1 ft wide is hanging over the side of a boat. Only 1 ft of the ladder is under the water. If due to heavy rain the water rises at the rate of 1 ft every 2 h, how many hours will it take to cover half of the ladder?



The ladder will always be 1 foot under the water because as the water rises, so does the boat.

Know with Derek

The only word in the English language dictionary that ends with 'mt' is dreamt.

Sub. Teacher's name → Kumari Archona

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26. Indian Film Awards

1. In 2018, who was posthumously honoured with the Dadasaheb Phalke award for outstanding contribution to Indian cinema?

a. Rajesh Khanna

b. Shashi Kapoor

c. Om Puri

d. Vinod Khanna



2. At the 63rd Jio Filmfare Awards 2018, who won the award for the Best Debut Director for the film, *A Death in the Gunj*?

a. Alia Bhatt

b. Konkona Sen Sharma

c. Abhishek Varman

d. Sunaina Bhatnagar

3. Who among them received the National Film Award for Best Actress for 2018?

a. Vidya Balan

b. Shabana Azmi

c. Sridevi

d. Kangana Ranaut



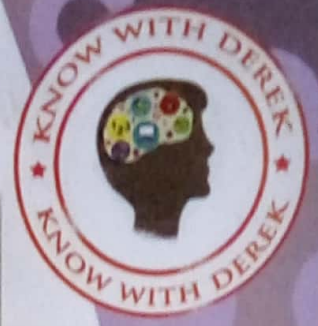
4. At the National Film Awards, which of these does the winner of the Best Actor award receive?

a. Swarna Chakra

b. Swarna Kamal

c. Rajat Chakra

d. Rajat Kamal



5. At the 65th National Film Awards, for which film did A R Rahman win the Best Background Score award?

- a. *Jab Harry Met Sejal*
- b. *Tumhari Sulu*
- c. *Mom*
- d. *Secret Superstar*



6. Who holds the record for the highest number of National Film Awards with 32 wins in various categories?

- a. Prithviraj Kapoor
- b. Adoor Gopalakrishnan
- c. Kamal Hassan
- d. Satyajit Ray



7. Who won the Best Actress award for her role in *Tumhari Sulu* at the 2018 Filmfare Awards?

- a. Vidya Balan
- b. Kareena Kapoor
- c. Sridevi
- d. Alia Bhatt

8. Who is the recipient of the IIFA Award for Outstanding Achievement in Indian Cinema, 2018?

- a. Amitabh Bachchan
- b. Anupam Kher
- c. Anil Kapoor
- d. Rishi Kapoor

Know with Derek

The first ever International Indian Film Academy Awards (IIFA) was held in 2000.

Sub. teacher's name → Kumari Archana



27. The Oscar Goes to

From a 'family dinner' for 270 or so, to the spectacular, star-studded ceremony of today, the Academy Awards has come a long way.

How the Oscar got its name!

The Oscars are awarded every year by The Academy of Motion Picture Arts and Sciences. In recent years, it has been held at the Kodak Theatre in Hollywood. The first Academy Awards were presented on 16 May 1929. It is believed that on seeing the statuette, Margaret Herrick a librarian at the Academy, who eventually became its executive director, remarked that it resembled her uncle Oscar. The name stuck and the Academy began to officially use the name from 1939.



Name these Oscar winners with the help of the given clues.

1. I am one of Hollywood's top directors, with movies like *Taxi Driver*, *Goodfellas* and *The Aviator* under my belt. After being nominated five times, I finally won the Oscar for Best Director for *The Departed*.
Martin Scorsese
2. A top cowboy-movies actor of yesteryear, as director I have won the golden double of Best Director and Best Film twice, once for *Unforgiven* and again for *Million Dollar Baby*. Clint Eastwood
3. My movie *Limelight* (1952) waited twenty years before it was shown in Los Angeles. It was awarded for Original Dramatic Score in 1973.
I was the greatest actor of the silent era. Charlie Chaplin

Know with Derek

Two films, *The Turning Point* (1977) and *The Color Purple* (1985) were nominated for 11 awards each but did not win a single one; on the other hand, *The Lord of the Rings: The Return of the King* (2003) was nominated for 11 awards and won all. This is the most number won by a single film. Two other films have also won 11 Oscars. They are *Ben-Hur* (1959) and *Titanic* (1997).

Sub. teacher's name → Kumari Archana



4. I am the only person to have won an Oscar (screenplay for the movie version of my play *Pygmalion*) and the Nobel Prize (for Literature, in 1925). George Bernard Shaw
5. I have the distinction of winning an Oscar, an Emmy (for Television) and a Tony (for Theatre) in the same year. Bob Fosse
6. A great Indian director, on receiving my Lifetime Achievement Oscar, I commented, "I didn't know it was so heavy!" Satyajit Ray
7. I have won the most awards for Best actor/actress. The four I won were for *Morning Glory* (1934), *Guess Who's Coming to Dinner* (1968), *The Lion in Winter* (1969) and *On Golden Pond* (1981).
Katharine Hepburn
8. My spectacularly successful film, *E. T. the Extra-Terrestrial*, surprisingly never won a major award at the 1983 Academy Awards as it was the same year in which Gandhi won eight Oscars. I am considered one of the greatest living directors and I specialise in sci-fi and special effects movies. Steven Spielberg
9. With 64 nominations and 26 Awards, I have won the most awards in the Oscars' history. Children love my films. Walt Disney
10. I am the first woman to win the Best Director award for the film, *The Hurt Locker*. Kathryn Bigelow



Grow with Derek

It is not always that the best person or team wins. The important thing is that you have tried your best and enjoyed yourself while doing it. Legendary actor Peter O'Toole was nominated for the Best Actor award eight times, but he never won.

Sub. teacher's name → Kumari Archana

28. The World of Harry Potter

Joanne Rowling is the author of one of the most-loved series of Harry Potter fantasy novels. The first novel of the seven book series, *Harry Potter and the Philosopher's Stone*, was published in 1997. The famous Harry Potter film series is based on these novels.

The seven Harry Potter books were published between 1997 and 2007.

1. *Harry Potter and the Philosopher's Stone*
2. *Harry Potter and the Chamber of Secrets*
3. *Harry Potter and the Prisoner of Azkaban*
4. *Harry Potter and the Goblet of Fire*
5. *Harry Potter and the Order of the Phoenix*
6. *Harry Potter and the Half-Blood Prince*
7. *Harry Potter and the Deathly Hallows*



How big a Potter fan are you? Try your hand at this Harry Potter quiz!

1. What is common to Aragog, Fang, Fluffy, Norbert and Buckbeak?
↳ All pets of Rubens Hagrid
2. To hide the fact that Harry Potter was at Hogwarts, where did Vernon Dursley, Harry's Uncle, claim he was studying?
↳ St Brutus' Secure Centre for Incurable Criminals
3. After Cornelius Fudge failed to admit that Voldemort was back, who replaced him as the Minister of Magic?
↳ Rufus Scrimgeour
4. A simple one: Who was the Half-Blood Prince?
↳ Severus Snape
5. What was the result of Harry Potter using the Patronus Charm to fend off an attack by dementors at Little Whinging?
↳ He was expelled from Hogwarts
6. If you unscramble the words 'I am Lord Voldemort', what do you get?
↳ Voldemort's true identity - Tom Marvolo Riddle

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7. What was Dumbledore referring to when he said: "shows us nothing more or less than the deepest, most desperate desire of our hearts"? Mirror of Erised

8. What is being defined: 'a receptacle in which a Dark wizard has hidden a fragment of his soul for the purpose of attaining immortality'? Horcrux

9. The curse with which Voldemort tried to kill Harry Potter as a child was the same spell that Severus Snape used to kill Dumbledore. Name the killer curse. Avada Kedavra Curse

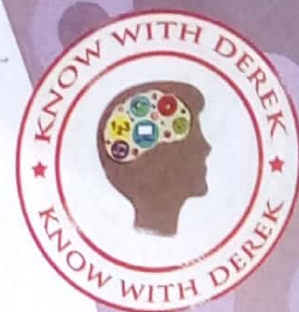
10. Who served as a Quidditch commentator during his years at Hogwarts? Lee Jordan

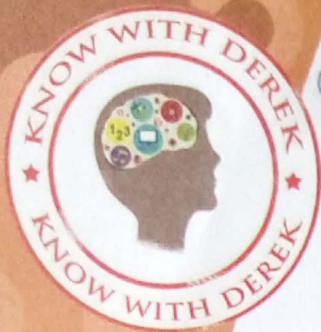


Know with Derek

The first Harry Potter book was released as *Harry Potter and the Sorcerer's Stone*, in the United States, because it was felt that the American readers would not be able to comprehend 'philosopher'. The books are published by Bloomsbury, in England, and Scholastic, in the United States.

Sub. teacher's name → Kumari Archana





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To learn

Sub. Gr. K

Plant and Animal Kingdom

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11. Trees of India

Fill in the missing letters to complete the names of these trees.

1. A b a n y a n tree in the Acharya Jagadish Chandra Bose Indian Botanic Garden near Kolkata is believed to be over 200 years old.
2. Gautama Buddha meditated under a f i f al tree and became Bodhi or the 'Enlightened One'.
3. M a n g o is the national fruit of India.
4. P i n es are evergreen conifers with needle-shaped leaves and are native primarily to northern temperate regions.
5. Native to Australia, New Guinea and parts of Indonesia, e u c a l y p t u s tree is famous for the commercial production of oil and timber.
6. Karnataka is one of the largest producers of s a n d a l w o o d.
7. N e e m tree is also called margosa.
8. M a h u a tree is found in central and northern plains of India. Its flowers, fruits and leaves are edible.

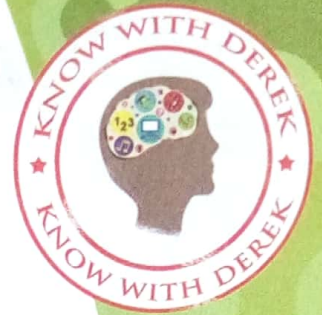


Know with Derek

Mangroves are the trees that grow in saline water. Some of them have specialised root-like structures called **pneumatophores** for breathing.



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12. Interesting Trees

Read about some of the unusual trees that grow in different parts of the world.

1. **Dodda Alada Mara**

This tree is also called the Big Banyan Tree. It is a 400-year-old banyan tree located near Bengaluru. It is one of the largest banyan trees in the world. It is said that the tree has more than a thousand aerial roots.

2. **The Giant Wisteria of Japan**

It is one of the largest wisterias in the world. It has beautiful purple flowers that makes it an ornamental plant. The Giant Wisteria of Japan is over 150 years old.

3. **Dragon Blood Trees**

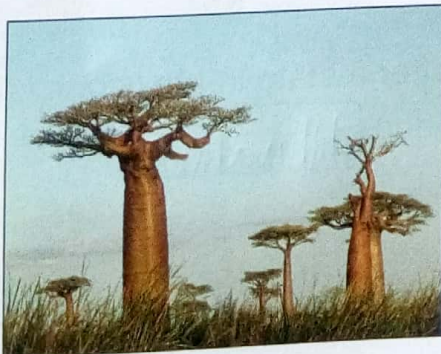
This species of trees is native to the Socotra archipelago. The trees get their name from the red sap they produce. Their sap has medicinal and colouring properties.

4. **Rainbow Eucalyptus Trees**

These trees shed parts of their bark revealing a bright green layer underneath. The inner bark then darkens and matures into shades of blue, orange and maroon. They grow in Indonesia and parts of South East Asia.

5. **Baobab Tree of Madagascar**

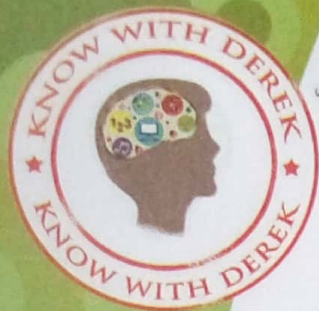
These trees are huge with unusual massive reddish cylindrical trunks.



Know with Derek

Sequoioideae or the redwoods are the tallest species of trees in the world. These trees can live for prolonged periods of time. Find out more about the famous redwoods—Hyperion and the General Sherman Tree.

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13. Man's Best Friend

Using the given hints and the **Help Box**, identify these popular dog breeds. Write their names in the space provided.

1.



Believed to be the oldest known breed of domesticated dog

Saluki

2. This dog with a wrinkly, short-muzzled face and, curled tail, became extremely popular in India after starring in a series of advertisements

Pug



3.



Domesticated in the Orient, it is referred to as Songshi Quan in Chinese, meaning 'puffy-lion dog'

Chow chow

4. Used as a messenger and guard dog during the two World Wars

Rottweiler



5.



Named after a state in Mexico, it is the smallest breed of dog

Chihuahua

6. The most popular breed of dog in the world

Labrador Retriever



Saluki	Pug	Chihuahua
Chow Chow	Rottweiler	Labrador Retriever

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7. Also known as the Alsatian, it is the preferred breed for many types of work, including disability assistance, search-and-rescue, police and military roles German Shepherd

8. Among the tallest breeds of dogs, it is nicknamed 'gentle giant' Great Dane



9. The fastest breed of dog that can reach speed of around 70 kmph Greyhound

10. Mainly used as a carriage dog in its earlier days, it is easily recognised by its spotted coat Dalmatian



11. Often depicted in films as a ferocious guard dog, it is an intelligent, alert and tenaciously loyal companion Doberman Pinscher



12. Large working dog from the Western Alps, used in alpine rescues St. Bernard



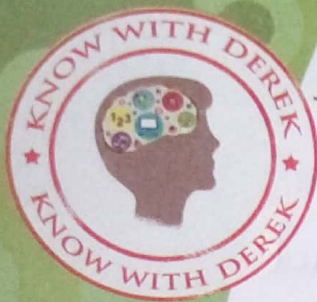
13. This breed has very strong jaws and a powerful bite ideal for hanging on to large prey Boxer



14. Very popular as a pet, it is a scent hound, trained primarily for hunting hare Beagle



Great Dane	Doberman Pinscher	St Bernard
Greyhound	German Shepherd	Beagle
Boxer		Dalmatian



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14. Rodents

Write the names of these animals using the Help Box.

1. This chiefly North American creature resembles the squirrel. It has distinct stripes on its body and head.



Chipmunk

4. This little animal is a very common household pet. It is particularly known for its ability to learn and remember a particular path.



Guinea Pig

2. It is a small, short-tailed, thickset rodent related to the voles, found in the Arctic tundra.



Lemming

5. This slow and round rodent is covered with quills. It usually lives on the land but sometimes also dwells on trees.



Porcupine

3. This animal is the largest rodent in the world. It is native to South America and lives in large groups.



Capybara

6. This creature is found in North and Central America. This burrowing rodent is an expert at making tunnels that resemble honeycombs.



Gopher

guinea pig

porcupine

capybara

chipmunk

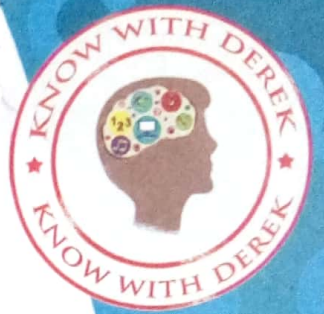
lemming

gopher

Know with Derek

The teeth of rodents do not include canines. They only have two pairs of incisors. These include the front teeth, one upper pair and one lower pair, which grow throughout their lives.

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15. Environmental Pollution

Tick (✓) the correct answers.

- The emission of which of these gases causes acid rain?
 - sulphur dioxide
 - carbon monoxide
 - hydrogen sulphide
 - methane
- Which of these is a climate pattern that describes the unusual warming of surface waters in the eastern tropical Pacific Ocean?
 - El Paso
 - El Nino
 - El Nina
 - La Nina
- Which of these scatters sunlight directly back into space?
 - aerosol
 - aerostat
 - thermocool
 - asbestos
- Which of these are widely used as coolants in refrigerators and air conditioners?
 - chlorofluorocarbons
 - methane
 - hydrocarbons
 - monocarbons
- What makes up about 60–80% of all marine debris?
 - oil
 - aluminium
 - wood
 - plastic
- Which of these is one of the most harmful components of smog?
 - ozone
 - carbon
 - radium
 - hydrogen
- Which of these is not a source of indoor air pollution?
 - mold and pollen
 - industrial effluent
 - tobacco smoke
 - pesticides



Know with Derek

Environmental pollutants contain harmful hydrocarbons, carcinogens and other deadly chemicals which cause fatal diseases like cancer.

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16. Natural Wonders

Over the years, many institutions have attempted to list the most magnificent wonders of the world. Here is a list of Know and Grow with Derek's top eight Natural Wonders across the world.

1.



Grand Canyon

Situated in Arizona, USA, the 277-mile long Grand Canyon measures up to a mile deep and some 18 miles wide at its broadest. It was formed over six million years by the unstoppable course of the Colorado River.

2.

Ayers Rock (Uluru), the second largest monolith (single rock) on Earth, lies in the middle of the Simpson Desert in Australia. It was declared a UNESCO World Heritage Site in 1987.



Ayres Rock

3.



Northern Lights

Seen in both Polar regions of the planet, this dazzling light show is aptly referred to as the Northern (or Southern) Lights. The effect is brought on by charged cosmic particles entering and interacting with the Earth's atmosphere, which causes vivid colours to be painted across the night sky.

4.

The Iguazu Falls are the largest system of waterfalls of the Iguazu River found on the border of Argentina and Brazil.

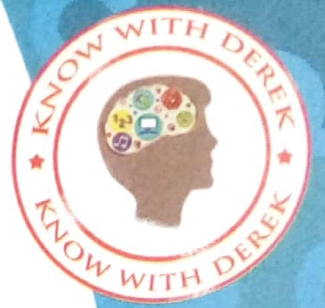


Iguazu Falls

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5.



Great Barrier Reef

The Great Barrier Reef is the world's largest coral reef system. It is made up of nearly 3,000 individual reefs and almost 1,000 islands over a span of 1,400 miles. Breathtaking in its beauty, it is home to a large diversity of marine creatures.

6. The Amazon has an estimated 390 billion individual trees divided into 16,000 species. The Amazon is the world's largest tropical rainforest and provides critical services for mankind.



Amazon Rainforest

7.



Ha Long Bay

The Ha Long Bay lies in northeast Vietnam. It is famous for its emerald waters and thousands of towering limestone islands that are topped by the rainforests.

8. Known as Sagarmatha in Nepal, and Chomolungma in Tibet, Mount Everest is one of the most famous mountain ranges in the world. It is the tallest mountain peak in the world. The mountain has been named after Sir George Everest.

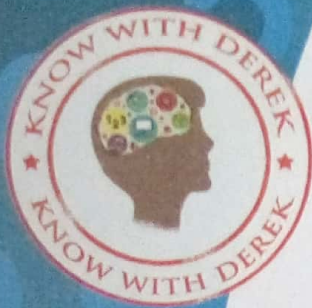


Mount Everest

Know with Derek

Apa Shepa and Phurba Tashi hold the record for most number of Mt Everest ascent.

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17. Elements

An element is a type of atom that is defined by its atomic number—the number of protons in its nucleus. The term also refers to a pure chemical substance composed of atoms with the same number of protons. There are 118 chemical elements out of which 94 occur naturally on Earth.

A. Name the element.

1. An orange-pink element used to make electrical wires and cables
2. Turns to liquid at room temperature, also known as quicksilver
3. A white-coloured element used in developing of photographic negatives
4. A deficiency of this leads to a disease called goitre
5. Used in the process of galvanisation, while electroplating an iron object
6. Used for giving a white polish to costume jewellery

Copper

Mercury

Silver

Iodine

Zinc

Rhodium

B. Identify the symbols and write the names of the elements.

- | | |
|-------|--------------------------------------|
| 1. Cu | <input type="text" value="Copper"/> |
| 2. Au | <input type="text" value="Gold"/> |
| 3. Pb | <input type="text" value="Lead"/> |
| 4. Ag | <input type="text" value="Silver"/> |
| 5. Hg | <input type="text" value="Mercury"/> |
| 6. Sn | <input type="text" value="Tin"/> |



Know with Derek

In 2016, four new elements were added to the Periodic Table: nihonium (Nh), moscovium (Mc), tennessine (Ts) and oganesson (Og).

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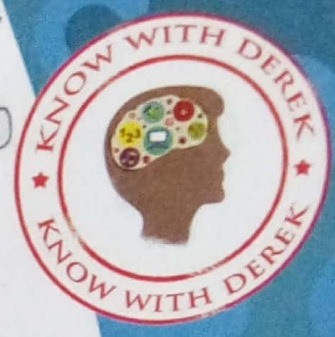
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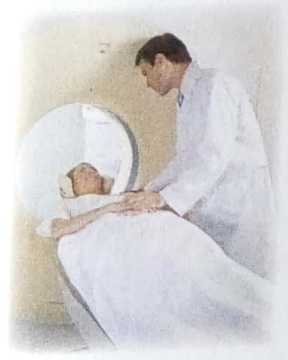
18. Medical Machines

Radiology uses medical imaging to diagnose and sometimes treat diseases within the body.

Sometimes, an ordinary X-ray cannot detect internal tissues or stones in the kidney. The doctor may then advise the patient to have a USG (Ultrasonography). The USG uses high frequency sound waves to record images live from the inside of one's body.



USG



CT Scan

A CT (Computed Tomography) scanner uses a combination of X-rays to acquire images of organs, bones and internal tissues.

The MRI (Magnetic Resonance Imaging) machine uses magnetic waves to produce images of the internal organs and non-calcified tissues. For the purpose of tumour detection and identification, MRI is superior to a CT Scan. But it consumes more time and is more expensive.



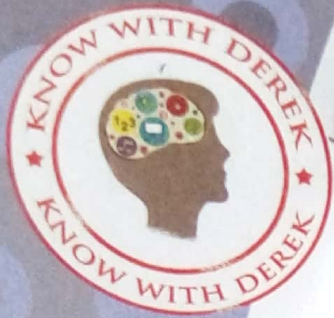
MRI

Know with Derek

This is a **manual sphygmomanometer**. It is used to measure blood pressure. Blood pressure (BP) refers to the pressure at which blood is pumped from the heart and travels through the arteries. Normal BP is said to be 120/80 mmHg (millimeters of mercury).



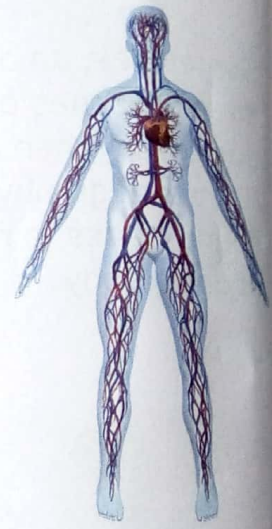
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19. The Circulatory System

Fill in the boxes using the words given in the Help Box.

- The blood from the heart is carried to the other parts of the body by the arteries.
- The red blood cells contain a pigment called haemoglobin that gives blood its colour.
- The arteries and veins are joined by a network of capillaries.
- Platelets cause the clotting of the blood.
- The two upper chambers of the heart are called atria.
- Plasma is the fluid part of the blood.
- The pulmonary Vein carries pure blood from the lungs to the heart.
- The rhythmic contraction and relaxation of the heart is called heartbeat.

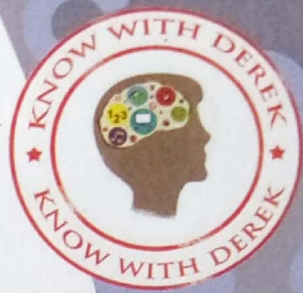


pulmonary vein	haemoglobin	platelets	arteries
plasma	atria	heartbeat	capillaries

Know with Derek

The size of one's heart is approximately equal to the size of his or her fist.

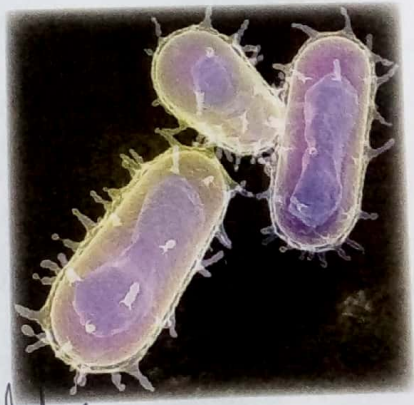
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20. Diseases

Tick (✓) true or false.

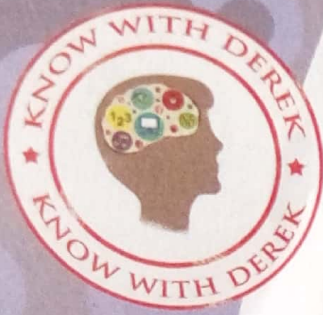
- 1. Nephritis is the inflammation of the kidneys.
True False
- 2. The Ebola disease is named after a river in the Democratic Republic of the Congo.
True False
- 3. Tonsillitis is an infectious viral disease that affects the central nervous system and can cause temporary or permanent paralysis.
True False Polio
- 4. Mumps is an infectious viral disease causing swelling of the parotid salivary glands in the face.
True False
- 5. Measles is a type of influenza that primarily affects the birds but can also be transmitted to the humans.
True False bird flu
- 6. Hepatitis is an inflammation of the spinal cord most commonly caused by a viral infection.
True False myelitis
- 7. Typhoid fever is a bacterial disease caused by *Salmonella Typhi*.
True False
- 8. Tuberculosis is a chronic disease that occurs when the pancreas does not produce enough insulin.
True False diabetes



Know with Derek

Turmeric helps fight viral infections such as cough and cold. It has antiseptic properties. Turmeric powder added to a glass of warm milk provides instant relief for an aching throat and a runny nose.

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21. Branches of Science

Match the descriptions to the branches of science.

Descriptions

- 1 The study of the diagnosis and treatment of skin disorders
- 2 The scientific study of the moon
- 3 The study of birds
- 4 The study of the relation of organisms to each other and their environment
- 5 The study of the treatment of the disorders of the eye
- 6 The study of the atmosphere and weather predictions
- 7 The study of the uses and effects of medicine
- 8 The study of human beings
- 9 The study of the mind and behaviour
- 10 The study of the past

Branches of Science

- a ornithology
- b meteorology
- c pharmacology
- d dermatology
- e ecology
- f ophthalmology
- g selenology
- h psychology
- i archaeology
- j anthropology

Know with Derek

An oologist is involved in the study and collection of birds' eggs.

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7. Reported Speech



Rewrite these sentences in **Reported Speech**.

1. "Who is the best painter here?" she asked.

She asked who the best painter was here.

2. "What is the matter?" he asked me.

He asked me what the matter was.



3. "What has he done to receive such laurels?"
Jeena asked.

Jeena asked what he had done to receive such laurels.

4. "I have never seen a student as bright as you," the teacher told me.

The teacher told me that she had never seen a student

5. The man said, "I have to go as soon as possible." as bright as me.

The man said that he had to go as soon as possible.

6. Alice said, "How clever I am!"

Alice exclaimed how clever she was.

7. "Please wait here till I return," Ravi told him.

Ravi asked him to wait here till he returned.

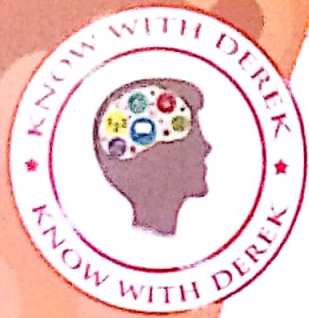
8. "Do you have a pen?" Payal asked him.

Payal asked him if he had a pen.

Grow with Derek

Write a paragraph in reported speech.

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Grammar and Language

8. Let Us Improve Our English

A. It is very important to speak any language the correct way. I have put together some of the common mistakes we make while speaking English. Rewrite them correctly.

- 1. Could you repeat again what you just said. _____
- 2. I do not go swimming because I fear the water. am afraid of water.
- 3. All the children did not eat their food. None of the children ate their food.
- 4. Tears rolled down my eyes. from _____
- 5. My teacher gave me a good advice. piece of / some _____
- 6. Our principal gave a small speech. short _____
- 7. Can I have some more, please? May I have some more please?
- 8. She distributed sweets amidst her friends. amongst _____

B. What is the correct meaning of these words? Tick (✓) the correct answer.

- 1. Bemuse

(a) glad	<input type="checkbox"/>	(b) silly	<input type="checkbox"/>
(c) puzzle	<input checked="" type="checkbox"/>	(d) hurt	<input type="checkbox"/>
- 2. Curio

(a) unusual object	<input checked="" type="checkbox"/>	(b) curious	<input type="checkbox"/>
(c) a fruit	<input type="checkbox"/>	(d) stone	<input type="checkbox"/>
- 3. Palette

(a) upper part of mouth	<input type="checkbox"/>	(b) artist's paint board	<input checked="" type="checkbox"/>
(c) ashen	<input type="checkbox"/>	(d) a type of bird	<input type="checkbox"/>

Know with Derek

A pangram is a sentence that contains every letter in the English alphabet, for example, *The quick brown fox jumps over the lazy dog.*

Sub Teacher's name - Kumari Arachana



4. Sallow

(a) yellowish

(b) a bird

(c) not deep

(d) long

5. Tiara

(a) bracelet

(b) rugged country

(c) a long gown

(d) crown

C. How good are you at spelling? Here is a little exercise for you to find out!

Rewrite this passage with the correct spellings.

“Do not harass others or embarras yourself. Fulfill your ambition to skillfully manouver the moveable yatch concientiously, thus benefiting all, and practice at the centre.”

embarrass, Fulfil, skillfully, manoeuvre, moveable, yacht, conscientiously, practise

D. As you know, homophones are words that sound alike but are spelt differently. Here are some clues to homophonic words beginning with ‘v’ and ‘w’.

1. (a) a drink made from the juice of grapes:

Wine

(b) a climbing plant:

Vine

2. (a) comparative degree of ‘wise’:

Wiser

(b) part of a helmet:

Visor

3. (a) part of a poem:

Verse

(b) comparative degree of ‘bad’:

Worse

4. (a) worn under a shirt:

Vest

(b) a compass direction:

West

5. (a) be different:

Vary

(b) be careful:

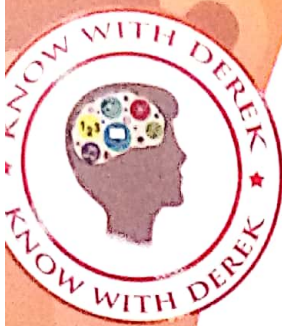
Warn

Know with Derek

When you ask someone their name, do not say: ‘What is your good name?’ Just ask: ‘What is your name?’

Remember, O’Brien is my ‘surname’, not my ‘title’.

Sub. Teachers name — Kurnasi Archana



9. Quantifiers

Select the correct words from the brackets to complete these sentences.

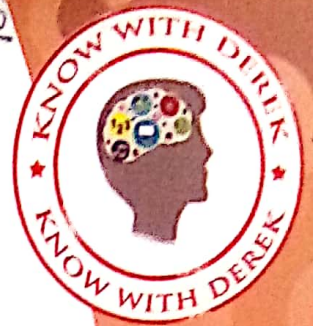
1. There was not much (much/any) sugar in the jar.
2. We do not know anything (anything/nothing) about the new teacher at school.
3. There is little (few/little) flour left to bake the cake.
4. We only have a few (few/little) carrots left. We should go and buy some more.
5. Every (Several/Every) book in the series is written by the same author.
6. There are many (many/much) eggs in the box.
7. I have taken up very little (few/little) of your time.
8. Would you like some (some/any) coffee?
9. There is some (some/any) water left in the jug.
10. He has spent all (all/every) of his money.



Know with Derek

Both the words 'much' and 'many' define 'a lot'. While the word 'much' is used with uncountable nouns like wood or time, 'many' is used with countable nouns, for example, goods or people.

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10. British and American English

Tick (✓) true or false.

1. In American English, torch is known as flashlight.

True

False



2. In American English, colour is spelt with an additional 'l'.

True

False

3. In American English, paralyse is spelt as paralyze.

True

False

4. The British English word for faucet is sink.

True

False

5. The British and the American spellings of theatre are the same.

True

False

6. In American English, it is called the hood of a car. In British English, it is the bonnet.

True

False

7. Drape is the American word for a stove.

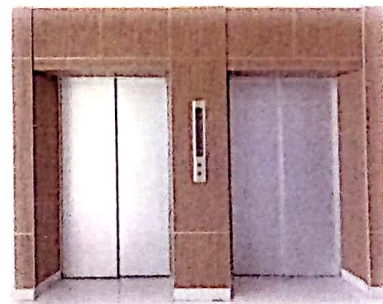
True

False

8. The American word for a lift is escalator.

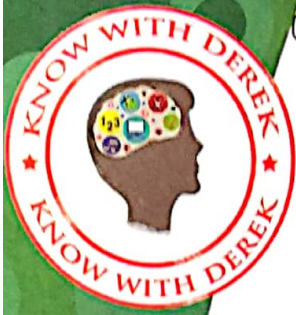
True

False



Know with Derek

The British word for a handbag is 'purse'. The word is derived from the Greek word *bursa* that means leather.



4. Identify the Sport

Name the sport with the help of the given clues.



1. Played in four to eight chukkers, each team consists of four players. Bump, hook, handicap and neckshot are some of the common terms in this game.

Polo

2. In this men's Olympic sport, each participant competes in ten different athletic events.

Decathlon

3. In this team sport, each player has a stick with a net at one end in which they catch, carry, pass, and shoot the ball.

Lacrosse

4. Polo, sprint and slalom are the various categories of this rough water sport.

Canoeing

5. The New Zealand national team of this sport is called the All Blacks and the Australians call their team the Wallabies.

Rugby

6. This Winter Olympics event is played in categories like Alpine (downhill and slalom) and Nordic Combined (cross-country).

Skiing

7. This event was not held in the 1956 Melbourne Olympics owing to strict quarantine laws and is the only Olympic event in which an animal wins a medal.

Equestrian

8. It is a gruelling athletic event in which the participants swim, cycle and run against each other.

Triathlon

Know with Derek

The sport called **Quidditch** has been portrayed in the *Harry Potter* series. It is played between two teams of seven players each. Nowadays, it is played as a sport on a rectangular pitch with the same number of players.



5. The Grand Slams

The four important tennis events/tournaments that take place every year are called the Grand Slam tournaments. If a singles or doubles player wins all the four tournaments in the same year, then he or she is said to have won a **Grand Slam** or a **Calendar Year Grand Slam**. If a player or team wins all four consecutively, but not in the same year, it is called a **Non-calendar Year Grand Slam**.

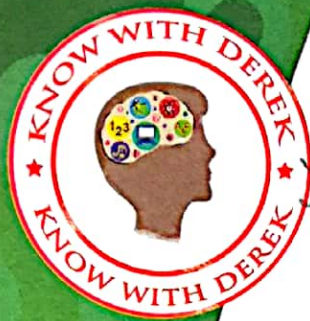
Let us learn about the four major tennis tournaments that take place in a year.

Tournament	Australian Open	French Open
Location	Melbourne Park, Melbourne	Roland Garros, Paris
Month	January	May-June
Original surface	Grass	Red, clay court
Present surface	Blue Plexicushion (Rebound Ace was also used till 2007)	Red, clay court
Main court	Rod Laver Arena	Court Phillippe Chartier
Greatest players (Men)	Novak Djokovic, Andre Agassi and Ken Rosewall	Rafael Nadal, Bjorn Borg and Mats Wilander
Greatest players (Women)	Serena Williams, Evonne Goolagong and Monika Seles	Chris Evert, Justine Henin and Steffi Graff
Women's Single Trophy	Daphne Akhurst Memorial Cup	Suzanne-Lenglen cup
Men's Single Trophy	Norman Brookes Challenge Cup	Musketeers' Cup

Know with Derek

Serena Williams and Roger Federer are the only players to have won the Australian Open tournament on both the surfaces—Rebound Ace and Plexicushion.

Sub. Teacher's name → Kumari Archana



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Tournament	WIMBLEDON	US Open
Location	The All England Lawn Tennis and Croquet Club	USTA National Tennis Center Flushing Meadows, New York City
Month	June-July	August-September
Original surface	Grass	Grass
Present surface	Grass	Pro Deco Turf
Main court	Centre Court	Arthur Ashe Stadium
Greatest Players(Men)	Roger Federer, Pete Sampras and Bjorn Borg	Jimmy Connors, John McEnroe and Roger Federer
Greatest players (Women)	Martina Navratilova, Steffi Graff and Serena Williams	Chris Evert, Serena Williams and Margaret Court
Women's Single Trophy	-	Venus Rosewater Dish

Some other important tennis events are:

- Canadian Open
- Cincinnati Open
- Indian Wells

Know with Derek

In 2006, the US Open became the first Grand Slam tournament to implement instant replay review of calls, using **Hawk-Eye**. A player is allowed two challenges per set plus one additional challenge during a tiebreak but is not penalised with the loss of a challenge if the challenge turns out to be correct.

Sub: Teacher's Name → Kumari Archana

6. The World of Martial Arts

Complete the crossword with the help of the given clues.

Across

1. A traditional martial art from Japan emphasises on throwing, immobilising and pinning, joint-locking and strangling techniques (2, 5)
4. A full-contact sport in which one can kick and box; its most well-known exponent is Jean Claude Van Damme (4, 6)
5. A Japanese form of fencing with bamboo sticks, meaning 'way of the swords' (5)
6. Modern martial art from Korea characterised by fast, high and spinning kicks (9)
7. A professional warrior belonging to the Japanese feudal military aristocracy, trained in the art of sword fighting (7)

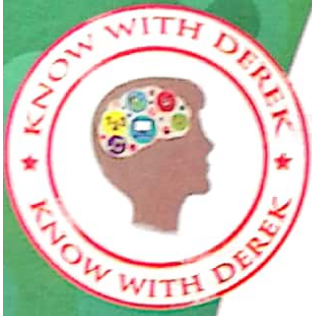


Down

2. It means 'gentle way' and is a modern Japanese martial art and one of the two martial arts that is an Olympic discipline (4)
3. A form of self-defence introduced by Morihei Ueshiba that it uses a combination of jujitsu and karate techniques (6)
5. An ancient Chinese martial art made popular by the Shaolin monks (4, 2)



Sub. Teacher's Name → Kumari Anshu
Abichana



1.		J	U	2.		J	I	T	S	U	
						U					
						D			3.		
										A	
4.		K	I	C	K	B	O	X	I	N	G
										K	
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						5.		K		E	N
								D		O	
								U			O
6.		T	A	E	K	W	O	N	D	O	
								G			
								F			
						7.		S		A	M
								U		R	A
										I	

Know with Derek

A ninja is a highly-skilled Japanese martial arts expert trained in espionage and guerilla warfare.