

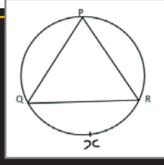


THE TIMES OF INDIA

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TODAY'S EDITION

➤ This week, we bring you science and maths sample paper, prepared by your teachers
PAGE 2



➤ Learn more about laughing yoga, a popular breathing exercise, which aims to bring out your inner child
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➤ Why IPL is the best cricket league in the world
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STUDENT EDITION

FRIDAY, MARCH 5, 2021



WEB EDITION

CLICK HERE: PAGE 1 AND 2

FACTOID

40

Indians entered the billionaires' club in the pandemic-stricken 2020 to take the number of those in the coveted list to 177 people, according to a latest report.

1 Mukesh Ambani continues to be the wealthiest Indian, with a net worth of \$83 billion. The head of the Reliance Industries witnessed a 24 per cent jump in fortunes, and climbed up one spot to be the eighth-richest globally, as per the Hurun Global Rich List

2 Gautam Adani from Gujarat, who has had a spectacular rise in fortunes in the last few years, saw his wealth almost doubling to \$32 billion in 2020 and climbed 20 places to be the 48th richest person globally and the second wealthiest Indian

3 Globally, the list is led by Elon Musk of Tesla, with a fortune of \$197 billion, followed by Amazon's Jeff Bezos at \$189 billion, and Frenchman Bernard Arnault of fashion house LVMH at \$114 billion

The report comes at a time, when concerns are being raised about a 'K-shaped' recovery being underway in India, where a select few prosper

NOW, CLIMATE CHANGE TAKES A TOLL ON INDIA'S FINANCIAL INSTITUTIONS. HERE'S HOW...



\$84 Billion

The amount of debt Indian banks are at the risk of facing, courtesy extreme climate, claims a leading non-profit environmental disclosure platform CDP. According to it, an increase in extreme weather events, such as floods, droughts and cyclones, risk souring debt of the country's biggest financial institutions. The State Bank of India, the country's largest lender, HDFC Bank, IndusInd Bank Ltd and Axis Bank Ltd are among the institutions that reported climate risks to CDP in 2020.

BANKS AT RISK

- The State Bank of India, which is facing concerns from shareholders and investors over its proposal to help fund the controversial Carmichael coal mine in northern Australia, valued its total climate risk at ₹3.83 trillion
- The second-highest risk was flagged by HDFC Bank, which estimated that it had assets worth ₹1.79 trillion in danger, a 24% increase from 2019. It said, its calculations took into account compensation, which it would have to pay to employees, in case of flooding and its exposure to farming, cement, coal, oil and power
- Smaller private banks IndusInd, Axis and Yes reported lowered climate change risk compared to last year at ₹466 billion, ₹75 billion and ₹20 billion, respectively, citing more diversified portfolios



The banks flagged exposure to environmentally-sensitive businesses, including cement, coal, oil and power. They also listed the effects of cyclones and floods on loan repayments in farming and related sectors. The lenders accounted for 87% of the total risk, valued at about \$97 billion, across 67 top Indian companies, which responded to CDP. The potential harm to agriculture echoes concerns raised by the Reserve Bank of India about the impact of climate change on farming, a sector that employs more than half of its citizens

India was second in the Asia Pacific and sixth globally among CDP's ranking of countries, whose companies committed to science-based targets for net-zero carbon emissions, the report showed. More than 50 Indian companies said, they are preparing for future policy and regulatory changes by voluntarily-committing to cutting their carbon footprint



Quote unquote

For an 'Aatmanirbhar Bharat' (self-reliant India), there is a need to focus on integration of global with local, for which we should work on a mission mode to break language barrier. There are lots of talent in villages and small towns. Restricting knowledge, research, is a great injustice to the country's potential. Be it space, atomic energy, DRDO, agriculture, etc, doors of many such sectors are being opened for the talented youth. Now, it is the responsibility of all the academics, experts of every language on how the best content of the country and the world should be prepared in Indian languages. This is completely possible in this era of technology. Moreover, to build a self-reliant India, there is a need to boost confidence among the youth of the country. Confidence comes only when the youth have complete faith in their education and their knowledge

Narendra Modi, PM, addressing a session on education, research and skill development for an Aatmanirbhar Bharat



9-year-old becomes Asia's youngest girl to climb Mount Kilimanjaro, Africa's highest peak

A nine-year-old girl from Andhra Pradesh has become the youngest girl in Asia to conquer Mount Kilimanjaro, the highest peak in Africa. Kadapala Rithvika Sri from Anantapur achieved the feat recently.



Rithvika conquered Mount Kilimanjaro, along with her father Kadapala Sankar, who is also her coach

The girl climbed to Gilman's point at 5,685 metres above sea level

Rithvika held the Indian Tri Colour with pride at the peak of Africa's highest mountain

She was trained at the Rock Climbing School in Bhongir, Telangana, and received level two training in Ladakh

In 2018, Samnanyu Pothuraju became the youngest mountaineer in the world to scale the Uhuru peak of Mount Kilimanjaro at the age of seven. Samnanyu's mother Lavanya, coach Thammineni Bharath, a fellow mountaineer, Shangabandi Srujana, and a local Tanzania doctor had accompanied him

JHENE AIKO TO HOST GRAMMY AWARD PREMIERE CEREMONY

Jhene Aiko is all set to host the Grammy Awards premiere ceremony this month. The Recording Academy has announced that the Grammy-nominated singer will anchor the pre-show, where most trophies are awarded. It will be streamed live on the Grammy's website, ahead of the 63rd annual ceremony on March 14. The Grammys will be held in Los Angeles at the Staples Center.

MUSIC

The pre-show will feature performances by rapper Burna Boy, singer Rufus Wainwright, jazz band Terri Lyne Carrington + Social Science, pianist Igor Levit, singer Poppy and Latin electropop musician Lido Pimienta

Aiko's third studio album 'Chilombo' has been nominated for the album of the year and best progressive R&B album. She's also up for best R&B performance for her song 'Lightning & Thunder', featuring John Legend



Animals fake death for long periods to escape predators: Study

A recent study by researchers from the University of Bristol has found that many animals fake death to try to escape their predators, with some remaining motionless, if in danger, for extended lengths of time. The study involved evaluating the benefits of death-feigning in terms of a predator visiting small population of conspicuous prey. The researchers used computer simulations, which utilise the marginal value theorem, a classical model in optimisation.

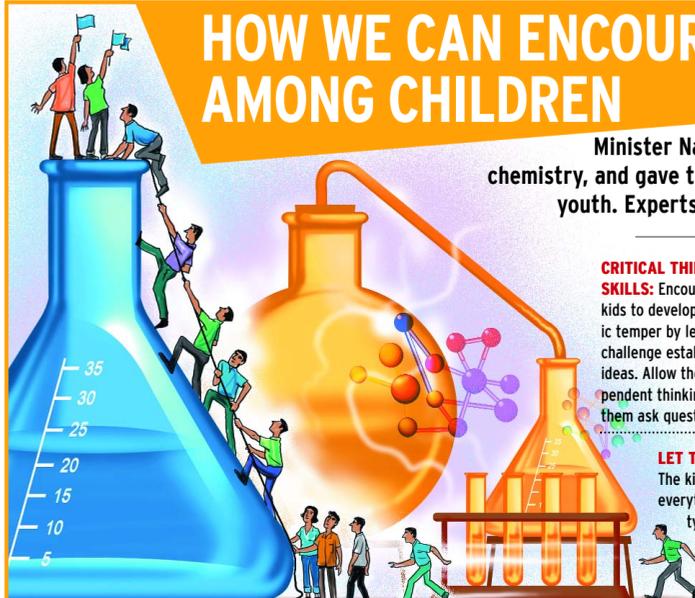
Charles Darwin had recorded a beetle that remained stationary for 23 minutes, however, the University of Bristol has documented an antlion larvae pretending to be dead for an astonishing 61 minutes. Besides, researchers estimate that the number of hours, in which an animal remains motionless is not only long but also unpredictable. This means that a predator will be unable to predict, when a potential prey will move again, attract attention, and become a meal. Explaining the reason, the researchers said, it's a



two-way process. While the hungry predators cannot wait indefinitely, the prey may also lose opportunities to get on with their lives, if they remain motionless for too long. Thus, death-feigning is a part of a hide and seek game, in which the prey might gain the most by feigning death, if alternative victims are readily available

HOW WE CAN ENCOURAGE SCIENTIFIC TEMPER AMONG CHILDREN

In his recent Mann ki Baat, Prime Minister Narendra Modi urged the youth to take science beyond physics and chemistry, and gave the 'Lab to Land' mantra to inculcate scientific temper among the youth. Experts tell us how it can be inculcated among the kids at a young age...



CRITICAL THINKING SKILLS: Encourage your kids to develop a scientific temper by letting them challenge established ideas. Allow them independent thinking and let them ask questions

ENCOURAGE REASONING: Today everything is available on the internet. But encourage your child to use logic and reasoning to solve their questions, instead of turning to the internet for quick answers

TAKE THEM OUT OF TEXTBOOKS: Textbooks may explain everything but practical concepts help in understanding things easily. Ask your kids questions that are not available in textbooks. Encourage them to do experiments

FUN ELEMENT VIA GAMES: The child's scientific thinking can be boosted with the help of mind games like chess. It helps in developing strategic thinking and logical sequencing

LET THEM SEEK ANSWERS ON THEIR OWN: The kids should be encouraged to question everything. They should be given the opportunity to find answers on their own, instead of being provided with readymade answers. Guiding them with reliable sources in their quest is also crucial

The term scientific temper, which means logical and rational thinking, was coined by Jawahar Lal Nehru, the first PM of India



TEST YOUR METTLE IN FIELDS OF SCIENCE



CLASS: X - 2020-21

SUBJECT:
SCIENCE
THEORY (CBSE)

Maximum Marks: 50

SECTION-A

Q1. Consider the following chemical reaction:

$X\text{SO}_4 + \text{Barium chloride} \rightarrow \text{Barium sulphate} + \text{Sodium chloride}$
Identify 'X' and write the name of the type of reaction. (1)

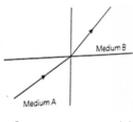
Q2. While diluting an acid, why is it recommended that the acid should be added to water and not water to the acid? (1)

Q3. A hydrocarbon has four carbon atoms. Give its molecular formula if it is an alkene. (1)

a) C_4H_{10} b) C_4H_8 c) C_4H_6 d) C_4H_2

Q4. An object, 4.0 cm in size, is placed at a 50.0 cm in front of a concave mirror of focal length 25.0 cm. Where will be the image formed and what is the size of the image? (1)

Q5. What will be the refractive index of medium B relative to medium A when light ray enters from medium A to medium B as shown in the figure? (1)



Q6. Name the optical phenomena involved in formation of rainbow. (1)

Q7. Why do commercial motors use soft iron core on which coil is wound? (1)

Q8. Why does a compass needle get deflected when brought near a bar magnet? (1)

Q9. A cylindrical conductor of length l and uniform area of a cross section A has resistance R. What will be in area of cross section of another conductor length 3l and resistance R of the same material? (1)

Q10. Why did Mendel choose pea plant for his experiments? (1)

Q11. Mention any two reasons for adopting the use of contraceptive methods. (1)

Q12. People who die from AIDS are not killed by the virus itself. Explain. (1)

Q13. State any one function of lymph in the human body. (1)

For question numbers 14, 15 and 16, two statements are given-one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

a) Both A and R are true, and R is correct explanation of the assertion.

b) Both A and R are true, but R is not the correct explanation of the assertion.

c) A is true, but R is false.

d) A is false, but R is true.

Q14. Assertion(A): ZnO is an amphoteric oxide.

Reason(R): Metal oxides which react with both acids as well as bases to produce salts and water are known as amphoteric oxides. (1)

Q15. Assertion (A): Herbivores are called first order consumers in a food chain.

Reason (R): The length and complexity of food chains vary greatly. (1)

Q16. Assertion (A): DNA copying is necessary during reproduction.

Reason (R): DNA copying leads to inheritance of characteristics from parent to offspring. (1)

Q. No 17-20 contain five sub-parts each. You are expected to answer any four sub-parts in these questions.

Q17. Read the following and answer any four questions from 17(i) to 17(v). (1x4=4)

Every living being plays an impor-

Paper Set By Science Department, Delhi Public School, Whitefield, Bengaluru



tant role in the food chain and the Earth's ecosystems. Extinction of species, whether predator or prey, can leave behind significant impacts on the food chain. During the transfer of energy through successive trophic levels, there is a loss of energy all along the path. No transfer of energy is 100%. The study of the transfer of energy in different food chains in a large number of ecosystems have revealed a uniform pattern. There is a progressive decline in the amount of energy available as we go from producer to higher trophic levels.

17(i) An example of a producer in an aquatic food web would be

a) tree b) insect c) duckweed d) fish

17(ii) The decomposers in an ecosystem

a) convert inorganic material, to simpler forms

b) convert organic material to inorganic forms

c) convert inorganic materials into organic compounds

d) do not breakdown organic compounds

17(iii) The diagram shows the flow of energy through an ecosystem.

The smallest amount of energy transferred between organisms and the largest amount of energy lost to the ecosystem is represented by which arrows?

a) 4, 3 b) 2, 1 c) 2, 3 d) 1, 4

17(iv) Accumulation of non-biodegradable pesticides in the food chain in increasing amount at each higher trophic level is known as

a) eutrophication b) pollution

c) biomagnification d) algal bloom

17(v) An ecosystem includes

a) all living organisms

b) all non-living objects

c) both living organisms and non-living objects

d) sometimes living organisms and sometimes non-living objects

Q18. Read the following and answer any four questions from 18(i) to 18(v). (1x4=4)

The metal reactivity series is a commonly taught concept in chemistry, placing the metals, as its name suggests, in order of reactivity from most reactive to least reactive. It's also a useful tool in predicting the products of simple displacement reactions involving two different metals, as well as providing an insight into why different metals are extracted from their ores in different manners. This

graphic places a selection of common metals into order of reactivity, as well as showing their reactions with air, water and steam.

The reactivity series offers a ranking of the metals in order of their reactivity. Group 1 metals, the most reactive metals in the periodic table, head up the rankings. They're closely followed by the marginally less reactive group two metals. The metals designated as the transition metals in the periodic table are much less reactive, and metals such as gold and platinum prop up the bottom of the series, exhibiting little in the way of chemical reaction with any everyday reagents.

18(i) An atom of an element has the electronic configuration 2,8,3. To which group does it belong?

a) 4th group b) 6th group

c) 13th group d) 2nd group

18(ii) Which one of the following statements is not correct about the trends in the properties of the elements of a period on going from left to right?

a) The oxides become more acidic

b) The elements become less metallic

c) There is an increase in the number of valence electrons

d) The atoms lose their electrons more easily

18(iii) Which of the following non-metals is lustrous?

a) Sulphur b) Oxygen

c) Nitrogen d) Iodine

18(iv) The atomic number of an element 'X' is 12. Which inert gas is nearest to X?

a) He b) Ar c) Ne d) Kr

18(v) Reaction between X and Y forms compound Z. X loses electron and Y gains electron. Which of the following properties is not shown by Z?

a) Has high melting point

b) Has low melting point

c) Conducts electricity in molten state

d) Occurs as solid

Q19. Read the following and answer any four questions from 19(i) to 19(v). (1x4=4)

Analyse the following observation table showing variation of image-distance (v) with object-distance (u) in case of a convex lens and answer the questions that follow without doing any calculations:

S.no.	Object-Distance U(cm)	Image-Distance V(cm)
1.	-60	+12
2.	-30	+15
3.	-20	+20
4.	-15	+30
5.	-12	+60
6.	-9	+90

19(i) The focal length of the convex lens is:

a) +10 cm b) +20cm c) -10 cm d) -20cm

19(ii) For what object-distance (u) is the corresponding image-distance (v) not correct:

a) -60cm b) -30cm c) -15 cm d) -9cm

19(iii) A student writes a few statements after studying the object distances and image distances of spherical mirrors and lenses.

(I) A concave mirror give real, inverted and same size image if the object is placed at C i.e. centre of curvature

(II) A convex mirror forms a virtual and magnified image of the object for all positions of the object

(III) A convex lens forms a real and highly enlarged image if object is placed at focus

(IV) A concave lens forms a real and diminished image if object is placed in between infinity and optical centre O of the lens

Choose the correct statement(s) from the following:

a) I and III b) II and IV

c) II and III d) I, III and IV

19(iv) Focal length of plane mirror is:

a) At infinity b) Zero

c) Negative d) None of these

19(v) The magnification of the convex lens when object is placed at 15 cm in the front of the convex lens:

a) +2 b) -2 c) +1 d) -1

Q20. Read the following and answer any four questions from 20(i) to 20(v). (1x4=4)

The space surrounding a magnet, in which magnetic force is exerted, is called a magnetic field. The direction of magnetic field lines at a place can be determined by using a compass needle. A compass needle placed near a magnet gets deflected due to the magnetic force exerted by the magnet.

The north end of the needle of the compass indicates the direction of the magnetic field at the point where it is placed. When the magnet shown in the diagram below is moving towards the coil, the galvanometer gives a reading to the right.

20(i) The direction of induced current is given by:

a) Right hand thumb rule

b) Fleming's right hand rule

c) Fleming's left hand rule

d) Maxwell's rule

20(ii) What is the condition of electromagnetic induction?

a) There must be a relative motion between the coil of the wire and galvanometer

b) There must be a relative motion between the galvanometer and a magnet

c) There must be a relative motion between the galvanometer and generator

d) There must be a relative motion between the coil of the wire and a magnet

20(iii) A student writes a few statements after studying the principles of electromagnetism and working of electric motor:

(I) Fleming's left hand rule is used to make electromagnet

(II) Fleming's left hand rule is used in electric motor

(III) Fleming's right hand rule is used

in electric motor

(IV) Right hand thumb's rule used in electric motor

Choose the correct statement(s) from the following:

a) Only I b) Only II

c) I and III d) II, III and IV

20(iv) When the magnet is moved away from the coil, it is observed that:

a) The galvanometer needle deflects to the left

b) The galvanometer needle deflects to the right

c) The galvanometer needle first deflects to the left and then to the right

d) The galvanometer needle first deflects to the right and then to the left

20(v) The induced current is highest when:

a) Direction of magnetic field is parallel to the direction of motion of the coil

b) Direction of magnetic field is opposite to the direction of motion of the coil

c) Direction of magnetic field is perpendicular to the direction of motion of the coil

d) Direction of magnetic field is straight line to the direction of motion of the coil

SECTION-B

Q21. What is scattering of light? How does it take place in the earth's atmosphere? (2)

Q22. A circuit has a line of 5A. How many lamps of rating 40W/220V can simultaneously glow on this line safely? (2)

Q23. (a) How many covalent bonds are there in a molecule of ethane (C_2H_6)? (2)

(b) Write the electron dot structure of ethane molecule (C_2H_6). (2)

Q24. Explain why magnesium metal after reacting with water starts floating on its surface. Write the chemical equation for the reaction. (2)

Q25. Observe the given experimental set-ups. (2)

SET-UP 'A'

SET-UP 'B'

Watch glass containing potassium hydroxide

Bell Jar

What is the aim of the above experiment?

ii) Why was potassium hydroxide placed inside the bell jar in set-up 'A'?

iii) If a leaf is plucked from set-up 'A' after it has been detached and then kept in the sunlight for few hours, what change will be observed in the leaf after the starch test and why?

Q26. How is tubectomy different from vasectomy? (2)

SECTION-C

Q27. A couple with a new born baby suspects a mix-up at the hospital. They check the blood group of the baby and find it is type O. Since the father has blood group A and mother has blood group B, they conclude that a mix-up has definitely happened.

Are they correct? Give reason for your answer. (3)

Q28. a) What is the role of seminal vesicles in human male reproductive system? (2)

b) List the events that occur when ovulation is not followed by fertilisation in humans. (3)

Find the angle to get optimal score

PAPER SET BY AMITA PATWARDHAN, DON BOSCO ENGLISH SCHOOL BADLAPUR, MUMBAI

Q1) A) M.C.Q. [4m]

1) $\Delta\text{CPA} \sim \Delta\text{CQB}$
 $\text{AP}=7, \text{BQ}=8, \text{BC}=12, \text{AC}=\text{---}$

a) 12.5 b) 10.5 c) 10.7 d) 10.2

2) In a right angled triangle hypotenuse is $8\sqrt{2}$, find the side opposite to 45°

a) $8\sqrt{2}$ b) 8 c) 8.2 d) $8\sqrt{3}$

3) Radius of circle 4.5cm, then diameter _____

a) 9.2cm b) 9.5cm

c) 9.0cm d) 9.8cm

4) Line AB is called _____

a) Radius. b) Diameter

c) Tangent d) Chord

B) Solve the following (Any Four). [4m]

1) Draw a circle of radius 2.5cm take a point P on it. Construct tangent through point P.

2) Find distance PQ, P(-5,7) Q(-1, 3)

3) $\tan\theta = 3/4$, find value of $\sec\theta, \csc\theta$.

4) Can we say $\Delta\text{DEF} \sim \Delta\text{PQR}$ are similar according to the information given, if yes by which test.



5) In the given figure, angle P = 79° , find angle R.

6) Find mid point of segment AB, A(22, 20) B(0,16)

Q2) A) Activity based questions (Solve any two). [4m]

1) Distance between points p(-3, 2), Q(1, -2)

$d(\text{P,Q}) = \sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$

$= \sqrt{(1-(-3))^2 + (-2-2)^2}$

$d(\text{P,Q}) = \sqrt{16+16}$

$= \sqrt{32}$

2) $\sin\theta = 20/29$ then find $\cos\theta$

By identify $\sin^2\theta + \cos^2\theta = 1$

$\cos^2\theta = 1 - \sin^2\theta$

$= 1 - (20/29)^2$

$= 1 - 400/841$

$= 441/841$

$\cos\theta = \sqrt{441/841} = 21/29$

3) To prove $\text{PM} \perp \text{PN}$, Prove- $\angle\text{PMO} \cong \angle\text{PNO}$. Angle $\text{PMO} = \text{Angle PNO} = \square = \text{R}$. $\text{segOP} \cong \text{segOP}$. $\text{segOM} \cong \text{segON}$ radius of same circle.

$\Delta\text{PMO} \cong \Delta\text{PNO}$ R.H.S. Test

$\square \cong \square$ c.s.c.t.

B) Solve the following. (any four). [8m]

1) Prove that opposite angle of cyclic quadrilateral are supplementary.

2) Find the point on the x axis which are equidistant from A(-3,4), B(1,-4).

3) A(h,-6). B(2,3). C(-6,k). Are the co-ordinates of vertices of triangle whose centroid is 4(1,5) Find h,k.

4) In the given fig. AB= radius, find the measures of each

a) Angle AOB b) Angle ACB

c) arc AB d) arc ACB

5) From the given diagram, which two Δ are similar & write the steps for test.

Angle A = 70° , Angle E = 70°

6) Construct a ΔPQR , $\text{PQ}=7\text{cm}$, angle $\text{Q}=120^\circ$, $\text{QR}=6.2\text{cm}$, construct tangent at point P by method(without using centre)

Q3) A) Solve the following. (any 1). [3m]

1) Find the value of y if the distance between points A(2,-2). B(-1, y) is 5

$\text{AB}^2 = (-1-2)^2 + (y-(-2))^2$ by distance formula

$(-3)^2 + (y+2)^2 = 5^2$

$\square + (y+2)^2 = 25$

$(y+2)^2 = 25-9$

$\square^2 = 16$

$(y+2)^2 = \square^2$

Taking square roots

$y+2 = \pm 4$

$y = +4 - \square$ & $y = -4 - \square$

Y value is $\{\square, \square\}$

Laughter yoga: What it is and how it works

Laughter boosts the immune system by reducing stress hormones and increasing infection-fighting antibodies, thus improving your resistance to disease. Learn more here...



Practising yoga regularly has countless health benefits. While there are many forms of yoga and types of asanas, there is also a branch of yoga called laughter yoga or laughing yoga. You might have even seen elderly people practising this form of yoga in groups. But what exactly is laughter yoga? Is it just about laughing when you do your yoga practice or something more? Let's discover.

WHAT IS LAUGHING YOGA?

Laughing yoga is a popular movement and breathing exercise, which aims to bring out your inner child, cultivate joy and help you get rid of daily stressors. Laughter is contagious and thus it's no surprise that laughing yoga started from a small group in Mumbai and now is famous all over India. The advocates of the practice claim that it relieves stress and reduces your risk of chronic diseases.

WHY SHOULD YOU PRACTICE LAUGHING YOGA



Laughing yoga involves a series of movements and breathing exercises that promote deliberate laughter. The laughing therapy has been used for decades, laughing yoga was discovered by Dr Madan Kataria from Mumbai in the year 1995. Dr Kataria claims that laughing yoga helps to lift your mood, strengthens your immune system, reduces stress, increases energy levels and improves your quality of life. Laughter yoga also allows the greater intake of oxygen, which activates the parasympathetic nervous system (your body's natural relaxation system).

HOW TO DO IT?

- Laughing yoga is practised in a group setting led by a trained laughing yoga instructor, who coaches people through various exercises to promote laughter and enjoyment.

- Most of the laughing yoga sessions begin with simple breathing technique, clapping and chanting that can help people relax. For example, you may begin the class by clapping rhythmically 1-2, 1-2-3 whole chanting "ho-ho, ha-ha-ha".

- The session may also include exercises like positive affirmations, gentle stretching, yoga breathwork and meditation. All



this helps you laugh, let loose and forget the worries of the real world temporarily.

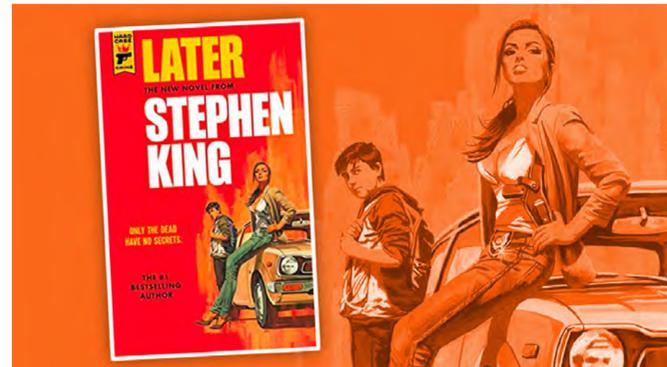


HOW DOES IT HELP?

- Laughing can provide you with immediate benefits like improved mood. It releases endorphins and other happy hormones like dopamine and serotonin.

- This yoga also suppresses stress hormones like cortisol, which is linked to better mood, reduced pain, stronger immune system and a lower rate of depression.

Stephen King talks about crime, creativity and new novel



Stephen King doesn't think of himself as a horror writer. "My view has always been you can call me whatever you want as long as the checks don't bounce," King told The Associated Press during a recent telephone interview. "My idea is to tell a good story, and if it crosses some lines and it doesn't fit one particular genre, that's good."

Readers may know him best for 'Carrie,' 'The Shining' and other bestsellers commonly identified as 'horror,' but King has long had an affinity for other kinds of narra-



tives, from science fiction and prison drama to the Boston Red Sox.

Over the past decade, he has written three novels for the imprint Hard Case Crime: 'Joyland,' 'The Colorado Kid' and 'Later,' which comes out this week. He loves sharing a publisher with such giants of the past as James M Cain and Mickey Spillane, and loves the old-fashioned pulp illustrations used on the covers. At the same time, he enjoys writing a crime story that is more than a crime story - or hardly a crime story at all.

'Joyland' is a thriller set around an amusement park and could just as easily be called a coming-of-age story. 'The Colorado Kid' has a dead body on an island off the coast of King's native Maine, but otherwise serves as a story about why some cases are best left unsolved. "It's the beauty of the mystery that allows us to live sane as we pilot our fragile bodies through this demolition derby world," he writes in the book's afterword.

ABOUT HIS NEW BOOK

His new novel 'Later' has a lot of crime in it but, as King's narrator suggests, it might actually be a horror story. Jamie Conklin is looking back on his childhood, when he was raised by a single mother - a New York literary agent. Like other young King protagonists, Jamie has special powers: He not only can see dead people, but when he asks them questions, they are compelled to tell the truth. 'Later' also features a best-selling novelist and his posthumous book, and a police detective who for a time is the girlfriend of Jamie's mother. The 73-year-old King has written dozens of novels and stories, and usually has three to four ideas that "are half-baked, kind of like an engine and no transmission." He doesn't write ideas down because, he says, if something is good enough he's unlikely to forget it.



SKIN HEALTH

Foods that help fade black spots from skin

Skin is a clear reflection of your health, so if your skin looks dry, patchy or has black spots, it's time to pay heed to your diet and health. Here are few foods that can naturally fix your black spots and give you good skin. You just need to consume and apply these easily available foods.



ALOE VERA

This wonder plant's naturally extracted gel is rich in vitamins A, B, C and E - all great for skin health. What's more? Aloe vera contains as good as 90% of the natural amino acids found in the body. The extracts of aloe vera are very rich in skin nourishing properties. Its daily application helps in fading of dark spots and reduces pigmentation; apply aloe vera gel before sleeping to nourish and heal your skin.



LEMON AND HONEY

Drinking a glass of lemon water with a teaspoon of honey naturally flushes out toxins from the body and the presence of antioxidants and vitamin C helps in naturally boosting the collagen synthesis of skin. Daily consumption and application of this blend gives the skin a natural glow and helps in removing dark spots. You can also apply this combo on skin to remove acne marks.

POTATO JUICE

Applying raw potato juice on dark spots regularly can help in fading out of dark spots and sun tan. This is due to the presence of vitamin c, potassium and other brightening agents in raw potato. **Recipe:** Use potato juice on the affected area for 2-3 months to see the difference.

LICORICE ROOT

Drinking a cup of licorice root tea or application of a licorice face mask can help in fading of dark spots. Licorice has a potent and active compound called glabridin, which has lightening properties.



PAPAYA

Enriched with the goodness of enzymes and minerals, daily application and consumption of papaya on the affected areas help in reducing dark spots. **Recipe:** Apply a paste of papaya and honey on your skin for 20 minutes. It will keep your skin flawless.

BANANA STRAWBERRY FRUIT WHIP

The best part about preparing a fruit whip is that you can play around and try different fruits like pineapple with strawberries or you can even partner avocados and raspberries or blueberries with banana. This one is refreshing, super healthy and yummy. Try it out.

- INGREDIENTS**
- > 450 gm condensed milk
 - > 2 bananas
 - > Ice cubes as required
 - > 2 1/2 cup sliced strawberry



- > 10 tablespoon lemon juice
- > 5 sprigs of mint leaves

HOW TO MAKE

Step 1: Blend together all the ingredients until smooth. Add all the ingredients to the food

processor. Blend for 3-4 minutes or until it is properly frothy. **Step 2:** Garnish with mint and ice and serve. Pour the whip into tall glasses and garnish with mint leaves. Add ice cubes and serve chilled.



QUIZ TIME (CURRENT AFFAIRS)

Q.1) Who won the Filmfare Best Actress Award for 2019? What was the name of the film?

- A. Vidya Balan, 'Tumhari Sallu'
- B. Alia Bhatt, 'Raazi'
- C. Deepika Padukone, 'Padmaavat'
- D. Tabu, 'Andhadhun'

Q.2) When will the results of the 2019 Lok Sabha polls be declared?

- A. Venkaiah Naidu
- B. Arun Jaitley
- C. Narendra Modi
- D. Nitin Gadkari

Q.3) Who conferred the National Youth Parliament Festival 2019 awards in New Delhi?

- A. June 1
- B. May 23
- C. May 18
- D. June 15

Q.4) When was National Science Day celebrated?

- A. Feb 20
- B. Feb 28
- C. Feb 6
- D. Feb 1

Q.5) Which Japanese emperor just abdicated his throne to his son?

- A. Akihito
- B. Shinzo Abe
- C. Keigo Higashino
- D. Naruhito

ANSWERS

- 1. B) Alia Bhatt, 'Raazi' 2. B) May 23 3. C) Narendra Modi 4. B) Feb 28 5. A) Akihito

KNOWLEDGE BANK

ARCHITECTURE



Jog falls

These are the second highest plunge waterfalls in India, located near Sagara, Shimoga district of Karnataka. The falls, situated on the Sharavati river, are ranked 13th in the world by the waterfall database. They are also known as Gersoppa Falls or Jogada Gundi. The falls are a huge tourist attraction.

WHY IPL IS FAR SUPERIOR THAN PSL

South African pacer Dale Steyn had claimed that there's so much emphasis on money that somewhere down the line, cricket gets forgotten in the Indian Premier League (IPL). Facing flak for his remarks, Steyn, currently plying his trade with the Quetta Gladiators in the sixth edition of the Pakistan Super League (PSL), issued a swift apology. Here's why IPL will remain domestic cricket's biggest extravaganza for years to come

MASSIVE VIEWERSHIP

■ Talking about comparing IPL with PSL, it is a no brainer that the Indian Premier League, which shattered records with an overall viewership of 405 million in 2020, has bragging rights over the elite Pakistani T20 tournament. While the 2019 World Cup final between New Zealand and England had a viewership of 15.4 million, the 2020 final between Mumbai Indians and Delhi Capitals garnered a television audience of 31.57 million.

MORE MONEY!

■ There is a reason why the BCCI doesn't let Indian players feature in other global leagues. The IPL has always been domestic cricket's biggest extravaganza since its inception. Even Indian all-rounder and youngster Shivam Dube had a bigger signing fee (₹4.4 crores) at the IPL 2021 auction than the prize money of the PSL 2020 final. Last year's champions Karachi Kings reportedly minted 5,00,000 USD (around ₹3.72 crore) for clinching the PSL title in 2020. Whereas Rohit Sharma-led Mumbai Indians pocketed ₹20 crore for retaining their crown in IPL 2020. Even runners-up Delhi Capitals earned ₹11 crore more than last year's PSL finalist Lahore Qalandars.

STAR-STUDED AFFAIR SINCE INCEPTION

■ The likes of Rashid Khan, Hasan Ali, David Miller, Chris Gayle, Chris Lynn and Tom Banton featured in the platinum list of the PSL draft 2021. While Gayle is already in the twilight phase of his career, Banton and Lynn only managed to warm the bench in the IPL 2020. In the IPL 2021 auction, all-rounder Chris Morris was roped in by Rajasthan Royals for a whopping ₹16.25 crores. However, Virat Kohli retained the top-earner tag with a staggering salary of ₹17 crore. From Ben Stokes, Steve Smith, David Warner to Pat Cummins, Glenn Maxwell, Kane Williamson and Eoin Morgan, every year IPL attracts some of the biggest names in white-ball

cricket as all 8 franchises often end up breaking the bank in order to acquire the services of world-class cricketers.

GROOMING YOUNGSTERS

■ IPL has been turning exciting young talents into household names since 2008. Over the years, the Indian cash-rich league has served itself as a launchpad for youngsters. From Jasprit Bumrah, Hardik Pandya to Shubman Gill and Prithvi Shaw, several exciting young talents have had the honour to rub their shoulders with the best in the business. Players not only raise their stocks in the domestic circuit by playing the IPL, they also strengthen their bid to receive national call-ups through career-defining performances.

RESEARCH TOO SHOWS IPL IS THE BEST

■ In a study done last year by CricViz, who work in cricket analytics, it was found that the cricket played in the IPL is of a higher standard than any other franchise based T20 league in the world. In fact the study found that the quality of cricket played in the IPL is higher than that of even the average match of international T20 cricket. The methodology used is that they study players who have played in various tournaments across the world and then assess how their performances have varied from league to league. So, if a batsman does very well in the Big Bash, but then struggles in the IPL, then by inference, the cricket played in the IPL is of superior quality than in the BBL and so on. Similarly if a player who does well consistently in the Bangladesh Premier League, but has struggled in the CPL, the Caribbean Premier League is of a higher standard. They keep adding more and more players to their study and the pattern that emerges becomes more and more consistent. The model used has data of 4500 players featured in.

There is a difference now (between IPL and PSL). In the last five-six years, there has been a big difference. They have put in a lot of money. IPL is the biggest cricket tournament in the world. Most players in the IPL have their personal coaches, like Praveen Amre. They have hired such kind of former cricketers who have gone on to become good coaches. You look at their batsmen, they play with such high confidence. The system is completely different.

WASIM AKRAM, former Pakistan pacer



RCB captain
Virat Kohli

Photo: TOI

6,6,6,6,6,6

Pollard became the second batsman to hit all balls of an over for sixes in a T20 international after India's Yuvraj Singh

THAT'S HOW I HAVE PLAYED MY CRICKET ALL ALONG

After the third one (on when he thought about hitting six sixes in the over). "I felt after hitting a couple of sixes, I understood how the pitch plays, it was important to be positive and play your shots on that pitch, back yourselves to clear the boundary, just happy that I managed to contribute to the team's cause at that point of time." Pollard said after the game.

A couple of things went through my mind before the sixth ball, before the last ball, I thought should I go for the six or take the 30 runs in the over, he went around the wicket and bowled it onto my pads, I told myself "Wait Polly, take a chance". That's how I have played my cricket all along, especially against the spinners. Today was my day, unfortunate for him, but this was a good win for our team.

Kieron Pollard's rampage came against Akila Dananjaya in the first T20I between West Indies and Sri Lanka, who had taken a hat-trick in only his previous over. Pollard is also only the third player overall to hit six sixes in an over in international cricket. South Africa's Herschelle Gibbs was the first ever batsman to do so in international cricket when he went after Netherlands' Daan Van Bunge in a group-stage match of the 2007 ODI World Cup. Dananjaya, who was sent to all corners of the park by Pollard in the sixth over, had become the third Sri Lankan to take a hat-trick in T20I cricket only in his previous over. West Indies have taken a 1-0 lead in the three-match series.

Photo: AP

Barca come from 2 goals down to reach Spanish Cup final

Barcelona will face either Athletic Bilbao or Levante, who are 1-1 in their semi-final, in the final on April 17 in Seville

Barcelona needed extra-time to reach the Copa del Rey final with a 3-2 aggregate win over Sevilla. Having trailed 2-0 from the first leg, Danish international Martin Braithwaite hit the crucial goal in the fifth minute of extra-time with a diving header off a Jordi Alba cross. Gerard Pique had equalised in the fourth minute of stoppage time with virtually the last play of the game to save Barca. That was after Ousmane Dembele had given the 30-time Spanish Cup winners a 12th-minute lead in the second leg with a right-foot drive from outside the area. "The team deserved to qualify," said Barca coach Ronald Koeman. AFP

Barcelona's Martin Braithwaite celebrates scoring their third goal

QUIZ TIME!

Q1: In 2019, Liverpool lifted their sixth European Cup by beating which club in the Champions League final in Madrid?

- a) Manchester United b) Chelsea
 c) Arsenal d) Tottenham Hotspur

Q2: In 2020, who led Serbia to the inaugural ATP Cup title with a victory in the deciding doubles encounter against Spain?

- a) Novak Djokovic b) Viktor Troicki
 c) Janko Tipsarevic d) Nenad Zimonjic

Q3: Who holds the record of most sixes in the history of ICC Women's T20 World Cup?

- a) Sophie Devine b) Harmanpreet Kaur
 c) Deandra Dottin d) Alyssa Healy

Q4: Which country won the 2014 Davis Cup?

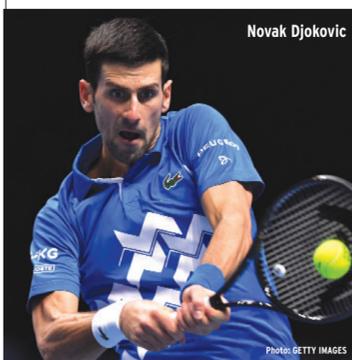
- a) Spain b) Switzerland
 c) Canada d) France

Q5: In which year did Tottenham Hotspur win the League Cup for the fourth time and became the first team to win the trophy at the new Wembley Stadium?

- a) 2008 b) 2007 c) 2009 d) 2010

Q6: Novak Djokovic won his 2008 Grand Slam title at the 2008 Australian Open. Which player did he defeat in the final?

- a) Roger Federer b) Andy Murray
 c) Stan Wawrinka d) Jo-Wilfried Tsonga



Novak Djokovic

Photo: GETTY IMAGES

Q7: Which of the following countries holds the record for winning the most consecutive Davis Cup titles?

- a) Spain b) Belgium c) France
 d) The United States

Q8: During which Olympics did Mark Spitz win his seventh gold medal?

- a) 1964 Tokyo Oly b) 1968 Mexico Oly
 c) 1972 Munich Oly d) 1976 Montréal Oly

Q9: In 2019, who took the most wickets in ICC Women's T20 Internationals?

- a) Sornnarin Tippoch b) Claire Taylor
 c) Nattaya Boochatham d) Suleeporn Laomi

Q10: Who is Arsenal's top goal scorer of all time with 228 career goals for the club?

- a) Thierry Henry b) David O'Leary
 c) Hugh McDonald d) Tom Parker

Q11: In 2020, who took the most wickets in Test Cricket?

- a) Yasir Shah b) Tim Southee
 c) Jasprit Bumrah d) Stuart Broad

ANSWERS: 1 d) Tottenham Hotspur
 2 a) Novak Djokovic 3 c) Deandra Dottin
 4 b) Switzerland 5 a) 2008
 6 d) Jo-Wilfried Tsonga
 7 d) The United States 8 c) 1972 Munich Games
 9 c) Nattaya Boochatham
 10 a) Thierry Henry 11 d) Stuart Broad