



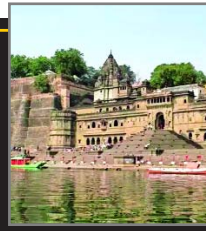
THE TIMES OF INDIA

www.toistudent.com
**TODAY'S
EDITION**

➤ Gear up for exams by attempting sample paper on Matter and Mechanics set by Ahmedabad teacher

PAGE 2


➤ Take a tour of the town of Maheshwar, rich in flora and fauna, and also in heritage, through a traveller's lens

PAGE 3


➤ Local favourites Murray, Raducanu advance at Wimbledon

PAGE 4

STUDENT EDITION
WEDNESDAY, JUNE 29, 2022
**THE
HINDU
E**
CLICK HERE: PAGE 1 AND 2


Emperor Jahangir had minted two 12 kg gold coins; while one was presented to Yadgar Ali, ambassador of the Shah of Iran, the other had become property of the Nizams of Hyderabad

Hunt on for world's biggest gold coin

After an almost four-decade futile search for the missing "12 kg gold coin", touted as the world's biggest coin ever minted, the Centre has renewed its hunt for the priceless artefact.

It was last seen in the possession of the titular Nizam VIII of Hyderabad, Mukarram Jah, who purportedly tried to auction the coin at a Swiss bank, but India's CBI failed to locate the coin that was passed on to Jah through his grandfather and last Nizam of Hyderabad, Mir Osman Ali Khan. The last Nizam had inherited the coin minted by Emperor Jahangir. Eminent historian Salma Ahmed Farooqui said it is priceless and is Hyderabad's pride. Now, renewed efforts to locate the coin have begun after 35 years.



1 Did you know that the earliest coins, which were in use for about 500 years were punch-marked coins. Punch-marked coins were generally rectangular, sometimes square or round in shape, either cut out of metal sheets or made out of flattened metal globules.

2 The coins were not inscribed, but were stamped with symbols using dies or punches. Hence, they are called punch-marked coins.

3 These coins are found over most parts of the subcontinent and remained in circulation till the early centuries.

**TEACHER
PROMPT:**

**Look at
coins from**

Samudragupta era. Discuss in class what qualities of the king are shown on the coins.

Can livestock farming style affect pandemic risk?

Apparently, yes. Scientists have thwarted the idea that intensive livestock farming is causing pandemics, and showed that it could actually reduce the risk of future pandemics compared to 'free range' farming.

In the wake of Covid-19, modern industrial farms with tightly-packed livestock were projected as potential hotspots for further pandemics caused by "zoonotic" diseases: those transmitted from animals to humans.

On the contrary, free-range alternatives, which require far more land, would increase encroachment on natural habitats and create ever more potential for diseases carried by wild animals to come into contact with humans and jump the species barrier, said a team of scientists from the University of Cambridge, UK.

"High-yield or 'intensive' livestock farming is blamed for pandemics, but those calling for a move away from intensive farming often fail to consider the counterfactual – the pandemic risk of farming less intensively and particularly the consequences for land use," said lead author Harriet Bartlett.

"Low-yield farms need far more land to produce the same amount of food compared with high-yield farms. A widespread switch to low-yield farming would result in the destruction and disturbance of vast areas of natural habitats. This increases the risk of viral spillover by disturbing wildlife that may well host the next pandemic virus and increasing contact between wildlife, people and livestock," Bartlett said.

"Intensive farms may have a greater risk of takeoff, but extensive farms may have greater risk of spillover," he said, adding, "This could increase the contact between people, livestock and stressed wildlife – including wildlife that might well host the next pandemic virus."

This paper was published in the journal 'Royal Society Open Science'.



Growing demand for livestock products has caused habitat loss, which means we are now farming in places where livestock and people are coming into frequent contact with wildlife. Experts say this contact with disturbed and infected wildlife makes the spillover of viruses into people or livestock more likely



MEANING

Intensive Farming refers to an agricultural system, wherein there is high level use of labour and capital, in comparison to the land area

POPULATION

It is practised in densely-populated region

Land holding

Small and expensive

FARMLAND

Near to the market

Per hectare output

Large

Extensive Farming is a farming technique, in which large farms are being cultivated, with relatively lower inputs, i.e. capital and labour

It is practised in moderately-populated region

Large and inexpensive

Near to the market
Remotely located

Small

SUMMING IT UP: The primary focus of intensive farming is on the quantity of the crop produced, whereas extensive farming stresses on quality. Intensive farming causes damage to the environment, as there is a high usage of chemicals that not only reduces the fertility of soil but also contaminates the food, which is not in the case of extensive farming.



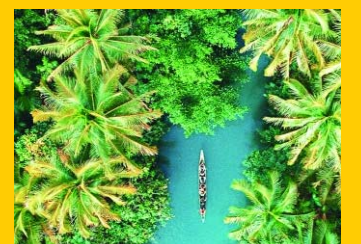
RELICS OF BUDDHA RETURN TO INDIA

The four holy relics of Lord Buddha came back to India after being displayed for 12 days at the Batsagaan Temple within the premises of Gandan Monastery, Mongolia as part of celebrations of Mongolian Buddha Purnima, the culture ministry said in a statement on Monday. The relics are known as the 'Kapilvastu Relics' since they are from a site in Bihar, first discovered in 1898, which is believed to be the ancient city of Kapilvastu.

JUNE 29

INTERNATIONAL DAY OF TROPICS

The International Day of the Tropics celebrates the extraordinary diversity of the tropics while highlighting unique challenges and opportunities nations of the tropics face. It provides an opportunity to take stock of progress across the tropics, to share tropical stories and expertise and to acknowledge the diversity and potential of the region.



DID YOU KNOW?

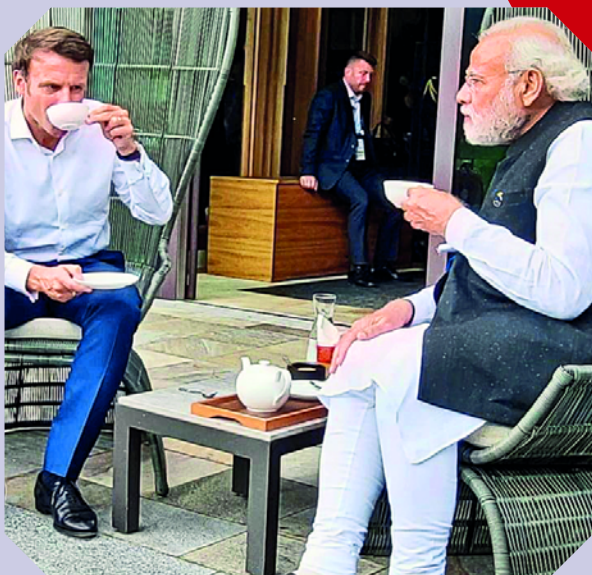
- The Tropics are warm all year, averaging 25 to 28 degrees Celsius. This is so because it gets more exposure to the sun. It is also moist.
- The Tropics host nearly 95% of the world's mangrove forests by area and 99% of mangrove species.
- The Tropics have just over half of the world's renewable water resources (54%), yet almost half their population is considered vulnerable to water stress.
- Biodiversity is greater in the Tropics – however, loss of biodiversity is also greater in the Tropics than in the rest of the world.

Tea and Toast At G7

WHAT PM SAID

■ Prime Minister Narendra Modi on Monday addressed a G7 session on food security and gender equality during which he emphasised that India's approach had transitioned from women's development to women-led development.

■ On 'Investing in a better Future: Climate, Energy, Health', he asserted that India's dedication to climate commitments is evident from its performance.



#WHAT'S TRENDING

TECH

AI's next big thing is 'fake' data

Last week Microsoft Corp. said it would stop selling software that guesses a person's mood by looking at their face. The reason: It could be discriminatory. But there's another, novel approach that tech firms are exploring: training AI on "synthetic" images to make it less biased. Until recently, the software used to recognise real people, now many AI makers are using fake or "synthetic" images to train computers on a broader array of people, skin tones, ages or other features, essentially flipping the notion that fake data is bad.



FASHION

Russia's fashion industry stares at loss

Scores of Western designer labels have quit Russia as part of a backlash against Moscow's decision to send troops into Ukraine, leaving their domestic competitors to take centre stage. At the annual Moscow Fashion Week, industry professionals said future looks uncertain. "We need to develop the production of fabrics because our fabrics and accessories are all imported," said Yulia Lavrichenko, a fashion stylist. "Unfortunately, our designers are suffering from this for the time being." Russian couturiers rely heavily on Italy to provide the exclusive materials that go into clothing their wealthy clientele.



MOVIES

'Worked round-the-clock'

Expressing gratitude towards fans for celebrating his 30 years in Indian cinema, Bollywood superstar Shah Rukh Khan said he worked round-the-clock to mark the day. He took to Twitter, a day after he interacted with his fans on social media and thanked them for their undying love. "Thank u all for celebrating my 30 yrs with cakes & edits and all things nice. For me the best way to celebrate is to work round the clock today to create more entertainment. Love you all (sic)," Khan said in a tweet.



'SELFISHNESS DELAYING GLOBAL OCEANS DEAL'

Some countries won't accept that the world's oceans belong to everyone and their "egoism" is holding up a global agreement on protecting these vast tracts of the planet, the United Nations chief said. UN Secretary-General Antonio Guterres didn't say which countries he was referring to, but stressed the significance of the oceans to everyone on the planet. "International waters are ours," he said. The UN chief was with senior officials and scientists attending the UN Ocean Conference in Lisbon.

PROPAGATION & ITS DIVERSITY

EXAMS
Rfun

SUBJECT
BIOLOGY
CLASS
X

Reproduction is the formation of new organisms of the same species by earlier existing organisms. It is one of the important life processes and is also responsible for the evolution of each species.

LIVING BEINGS REPRODUCE THROUGH TWO METHODS..

- 1) Asexual reproduction
 - 2) Sexual reproduction
- ASEXUAL REPRODUCTION** - When a new organism is formed from organisms of the same species without the involvement of gametes.

CHARACTERISTICS OF ASEAXUAL REPRODUCTION

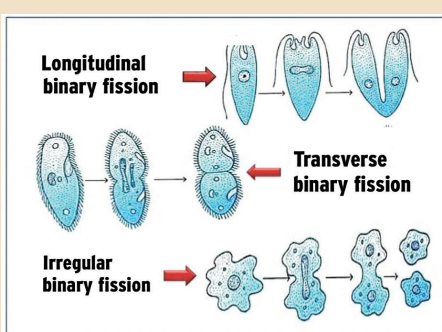
- New organisms have exact genetic similarities because there is no involvement of gametes.
- The process of asexual reproduction is fast.
- Due to genetic similarity, it has less chance of survival due to changing environmental factors.

TYPES OF ASEAXUAL REPRODUCTION

- In unicellular organisms
 - Binary fission
 - Multiple fission
 - Budding
- In multicellular organisms
 - Fragmentation
 - Regeneration
 - Budding
 - Vegetative propagation

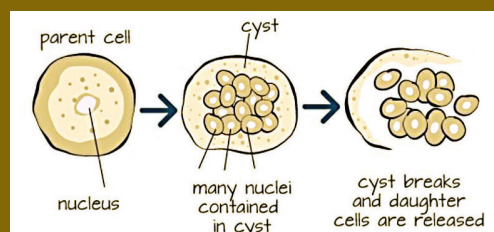
BINARY FISSION

The parent cell divides to form two similar daughter cells. The axis of division is different for different types of prokaryotes. Longitudinal binary fission in Euglena, Transverse binary fission in Paramecium, Irregular binary fission in Amoeba



MULTIPLE FISSION

The prokaryotes like Amoeba, Plasmodium, etc., become rounded and form a hard wall called a cyst. Many nuclei are formed by repeated nuclear divisions in the cyst. This happens due to unfavourable conditions. Later when favourable conditions arrive the cyst breaks open and many daughter cells are released.

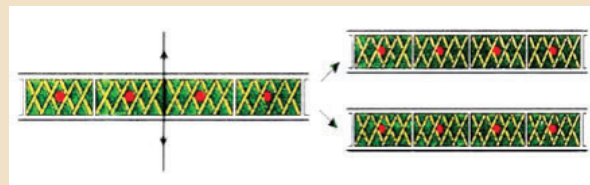


BUDDING

This type of reproduction is seen in Yeast. A small bulge appears on the surface of the parent cell. This bulge is actually a bud of one of the two daughter nuclei. After sufficient growth, the bud separates from the parent cell and starts to live independently as a daughter yeast cell.

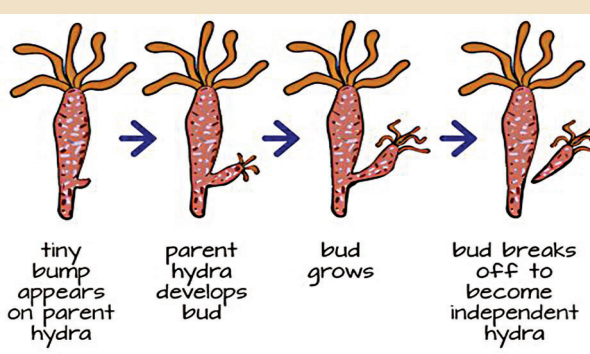
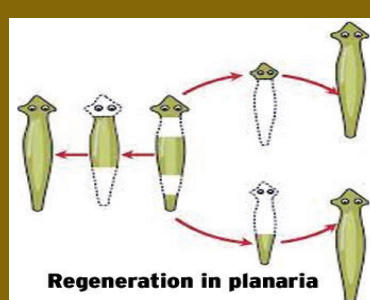
FRAGMENTATION

This type of reproduction is seen in the multicellular organism. The body of the parent organism breaks up into many fragments and each fragment starts to live as an independent new organism. Example - Spirogyra



REGENERATION

This type of asexual reproduction is seen in some types of animals. In this, the animal body breaks up into two parts and each part regenerates the remaining part of the body and the new organism is formed.



BUDDING (MULTICELLULAR)

Under favourable conditions, certain part of Hydra forms an outgrowth by repeated division of regenerative cells. This outgrowth is called a bud. The bud grows up for some time along with the help of the parent hydra. Under favourable conditions, the bud Hydra will separate from the parent and leads an independent life.

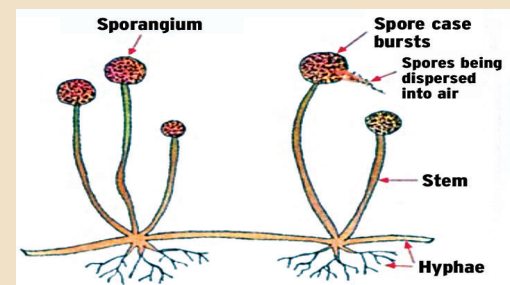
VEGETATIVE PROPAGATION

This type of reproduction is seen in different vegetative parts of plants like the root, stem leaf, and the bud. Vegetative propagation in potatoes is performed with the help of eyes present on the tuber whereas in Bryophyllum it is performed with the help of buds present on the leaf margin; in the case of plants like sugarcane and grasses, vegetative propagation occurs with the help of buds present on the nodes.



SPORE FORMATION

Fungi-like Mucor has a filamentous body. They have sporangia. Once the spores are formed, the sporangia burst, and spores are released. Spores germinate in a moist and warm place and a new fungal colony is formed.



RECAP

MATCH THE TYPE OF REPRODUCTION:

- | | |
|--------------|---------------------------|
| 1. Amoeba | a. Spore formation |
| 2. Yeast | b. Binary fission |
| 3. Spirogyra | c. Vegetative propagation |
| 4. Potatoes | d. Fragmentation |
| 5. Mucor | e. Budding |



SUNANDA K NAIR,
St Therese Convent
High School,
Dombivli East,
Mumbai

ANSWERS: 1-B,2-E,3-D,4-C,5-A

OF MATTER & MECHANICS



EXAMS
Rfun

CLASS: XII
SUBJECT: PHYSICS (CBSE)
TIME: MM: 35

PAPER SET BY UDGM TEAM, UDGM SCHOOL FOR CHILDREN, AHMEDABAD

GENERAL INSTRUCTIONS:

- (i.) There are 12 questions in all. All questions are compulsory.
- (ii.) This question paper has three sections: Section A, Section B and Section C.
- (iii.) Section A contains three questions of two marks each, Section B contains eight questions of three marks each, Section C contains one case study-based question of five marks.
- (iv.) There is no overall choice. However, an internal choice has been provided in one question of two marks and two questions of three marks. You have to attempt only one of the choices in such questions.
- (v.) You may use log tables, if necessary, but use of calculator is not allowed.

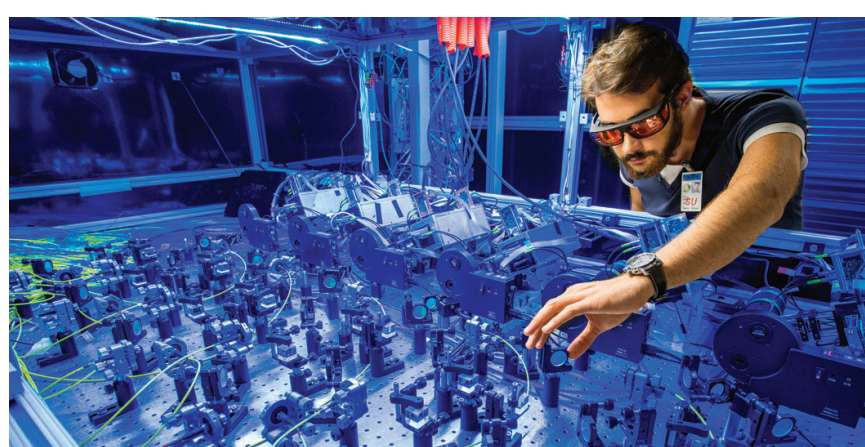
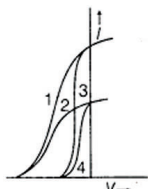
SECTION-A

Question 1: Draw a circuit diagram showing the biasing of an LED. State the factor which controls
(i) wavelength of light.
(ii) intensity of light emitted by the diode.

Question 1: When is the $H\alpha$ line in the emission spectrum of hydrogen atom obtained? Calculate the frequency of the photon emitted during this transition. The value of $R = 1.09 \times 10^7 \text{ m}^{-1}$.

OR

(a) The given graph shows the variation of photoelectric current (I) versus applied voltage (V) for two different photosensitive materials and for two different intensities of the incident radiations. Identify the pairs of curves that corresponds to different materials but same intensity of incident radiation. Give reason.



(b) An electron is moving with an initial velocity $v = v_0 i$ and then enters in a magnetic field $B = B_0 j$. What impact would be on de-Broglie wavelength after entering in the magnetic field? Justify.

Question 3: Draw V-I characteristics of a p-n junction diode. Answer the following questions, giving reasons.
(i) Why is the current under reverse bias almost independent of the applied potential up to a critical voltage?
(ii) Why does the reverse current show a sudden increase at the critical voltage?

SECTION-B

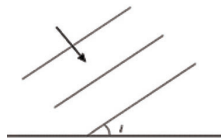
Question 4: Which state of the triply ionized Be^{+++} has the same orbital radius as that of the ground state of hydrogen? Compare the energies of two states.

Question 5: Draw the circuit diagram of a full-wave rectifier using a centre-tap transformer and two p-n junction diodes. Give a brief description of the working of this circuit. Draw input waveforms at two diodes and output wave form across load resistance.

Question 6: (a) If both the number of protons and neutrons in a nuclear reaction is conserved, in what way the mass of a nucleus in its

ground state is always less than the total mass of its constituents - neutrons and protons. Explain.
(b) A nucleus with mass number $A = 240$ and B.E. $/A = 7.6 \text{ MeV}$ breaks into two fragments each of $A = 120$ with B.E. $/A = 8.5 \text{ MeV}$. Calculate the released energy.

Question 7: A plane wavefront propagating in a medium of refractive index ' μ_1 ' is incident on a plane surface making the angle of incidence 'i' as shown in the figure. It enters into a medium of refractive index ' μ_2 ' ($\mu_2 > \mu_1$). Use Huygens' construction of secondary wavelets to trace the propagation of the refracted wavefront. Hence verify Snell's law of refraction



Question 8: In the diffraction due to a single slit experiment, the aperture of the slit is 3 mm. If monochromatic light of wavelength 620 nm is incident normally on the slit, calculate the separation between the first order minima and the 3rd order maxima on one side of the screen. The distance between the slit and the screen is 1.5 m.

OR

(i) A compound microscope uses an objective lens of focal length 4 cm and eyepiece lens of focal length 10 cm. An object

is placed at 6 cm from the objective lens. Calculate the magnifying power of the compound microscope for least distance of distinct vision.
(ii) Draw the labelled ray diagram for the formation of image by a compound microscope.

Question 9: Ultraviolet light of wavelength 2270 Å... from 100 W mercury source irradiates a photocell made of a given metal. If the stopping potential is -1.3 V, estimate the work function of the metal. How would the photocell respond to a high intensity ($\sim 10^5 \text{ Wm}^{-2}$) red light of wavelength 6300 Å... produced by a laser?

Question 10: A triangular prism of refracting angle 60° is made of a transparent material of refractive index $2/\sqrt{3}$. A ray of light is incident normally on the face KL as shown in the figure. Trace the path of the ray as it passes through the prism and calculate the angle of emergence and angle

Question 11: (a) Name the EM waves which are used for the treatment of certain forms of cancer. Write their frequency range.
(b) Thin ozone layer on top of stratosphere is crucial for human survival. Why?
(c) Why is the amount of the momentum transferred by the em waves incident on the surface so small?

OR

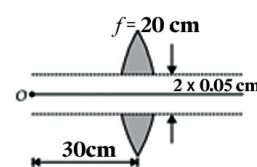
(a) Write the necessary conditions to obtain sustained interference fringes. Also write the expression for the fringe width.
(b) In Young's double slit experiment, plot a graph showing the variation of fringe width versus the distance of the screen from the plane of the slits keeping other parameters same. What information can one obtain from the slope of the curve?
(c) What is the effect on the fringe width if the distance between the slits is reduced keeping other parameters same?

SECTION-C

Question 12: **CASE STUDY: Refraction Through Lens** A convex or converging lens is thicker at the centre than at the edges. It converges

a parallel beam of light on refraction through it. It has a real focus. Convex lens is of three types: (i) Double convex lens (ii) Plano-convex lens (iii) Concavo-convex lens. Concave lens is thinner at the centre than at the edges. It diverges a parallel beam of light on refraction through it. It has a virtual focus.

I. A point object O is placed at a distance of 0.3 m from a convex lens (focal length 0.2 m) cut into two halves each of which is displaced by 0.0005 m as shown in figure.



What will be the location of the image?

- (a) 30 cm right of lens
 - (b) 60 cm right of lens
 - (c) 70 cm left of lens
 - (d) 40 cm left of lens
- II. Two thin lenses are in contact and the focal length of the combination is 80 cm. If the focal length of one lens is 20 cm, the focal length of the other would be.
(a) -26.7 cm (b) 60 cm (c) 80 cm (d) 20 cm
- III. A spherical air bubble is embedded in a piece of glass. For a ray of light passing through the bubble, it behaves like a
(a) converging lens
(b) diverging lens
(c) plano-converging lens
(d) plano-diverging lens
- IV. Lens used in magnifying glass is
(a) Concave lens (b) Convex lens
(c) Both (a) and (b)
(d) Neither concave lens nor convex lens
- V. The magnification of an image by a convex lens is positive only when the object is placed
(a) at its focus F
(b) between F and 2F
(c) at 2F
(d) between F and optical centre

These questions are meant for practice purpose only. Students are advised to check format, syllabus and marks for Board test papers with their teachers. Questions have been given by teachers and NIE is not responsible for them.

Podar premier league held

"Passionate Powerpack Landmark event in the history of Podar World School."



The PPL, which is one of its kind, was inaugurated on June 18 at Podar World School, Sama, Vadodara on the occasion of Father's Day with an active participation of 65 teams.

The teams were given a red-carpet grandeur welcome. The PPL was declared open with a symbolic and colourful opening by principal Rekhaa Shah, vice principal Kulwinder Kaur and PJK Headmistress Veena in the presence of existing teams and cheerful students with fanfare.

The winning amount of the PPL will be dedicated to the CRY Foundation.

THERE WERE 8 TEAMS NAMELY:

1. Podar Tigers
2. Podar Rangers
3. Azad Eleven
4. HM Hitters
5. Podar Titans



6. Pirates Atlantic
7. Sama Lions
8. Podar Warriors.

Competing in the quarter finals to enter the semi-finals (June 19) and making their way

into the finals to leave the first impression of their victory of the PPL.

Zebarites delve into the emerging trends of AI



Zebar School for Children organized an internship program in Artificial Intelligence to give the real-world experience of the emerging technology to young learners of class IX and X. The aim of this internship program was to promote research and increase awareness about advanced programming elements of Python and Neuroscience with Python.

To make this phase easy and scrupulous, an orientation was successfully carried out for Zebarites on April 30. The orientation was hosted by AI Educator Nidhi Trivedi and graced by executive director Manan Choksi, academic advisor Radhika Iyer, GRO Manju Malaviya, principal Sharmistha Sinha, vice principals of all sections and supervisors.

The importance of Artificial Intelligence was discussed to enhance employability skills and the possible career paths available to people in today's world. The programme was driven by Co-founder and CTO of the company Shyam Parmar and his team who emphasized and showcased BrainAid, an AI Based Brain Computer Interface Device which helps in bridging the learning gaps in the classroom.

22 students were given intensive training and guidance for 15 days. The workshop was designed with the objectives to get hands-on experience about making face lock applications, autonomous driving cars, rock-paper-scissors game using computer vision. The cost of the workshop was borne by the school.



The company shortlisted 5 students and provided Best Summer Internship for a period of 15 days where students worked in close collaboration with the software team and data scientists, to get the exposure of designing websites with the help of different programming languages and gained real-life experience. After successful completion of the internship, students received an internship certificate and stipend. These students include Dhairya Chokhadia, Harsh Deshmukh, Mahir Shah, Aayush Agarwal and Henil Rojarsara

We are proud to announce that along with 5 interns, 3 Zebarites of class IX were also selected for the project on 'Women Safety'. They include Anya Rajani, Sakshi Joshi and Vidhi Patel

All the interns actively participated in the Internship program by submitting the assignments meticulously in no time. It was an overall positive experience for the Zebarites.

HEMA TANEJA, educator

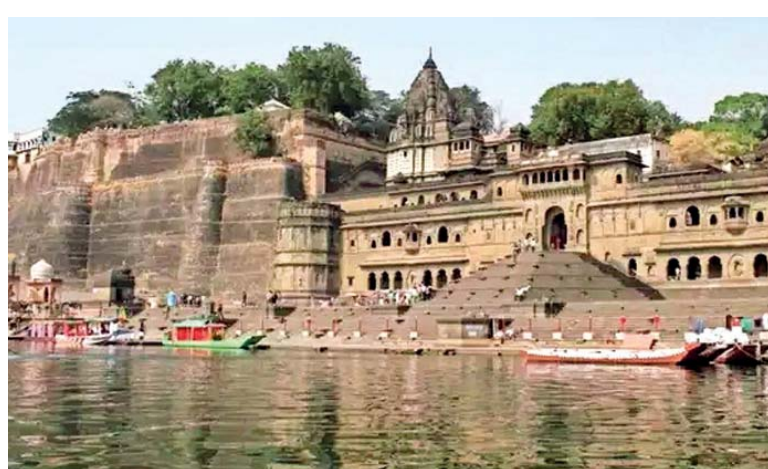
The Historical Bonanza, Maheshwar

Madhya Pradesh has several monumental architectures. The State is gifted with natural beauty, rich flora and fauna and picturesque water bodies. My recent journey to Maheshwar left me completely enthralled with its majestic heritage architecture. The road journey from the Grape City Nashik to Maheshwar is about 349-kms.

I was awestruck by the sculpted beauty that lay before me as soon as I entered our place that is within the massive entrance gates of the Ahilya Fort. Each door, window and wall conveyed the aesthetic taste and love for art that ran deep into the veins of the Holkars (rulers), who built the palace. The dining area in the courtyard was surrounded with towering walls and age-old tresses stood gracefully in the place.

The experience was undoubtedly unique. After some rest and tea, I thought of taking a stroll in the streets of the city. Every corner you could see the traditional Maheshwar saarees being made by the dexterous weavers. I and my group members then headed towards the Narmada Ghats.

While stepping down the stone steps I



felt as if I was going down into the unsurpassably beautiful royal world. Ahilya temple and the remains of the fort, especially the balconies or you may call the windows through which you could see the evening Sun, created a grand reflection in the waters of the Narmada river. The only question which repeatedly triggered my mind was that how did the artists, builders and rulers bring

such immense imagination for the profuse wealth of architecture?

I returned to my room with my whole being under a spell of the immensely creative past. The journey and the stay kept me thinking about the fairyland wonder that I was witnessing and stayed enthralled.

GEETA SAINI, ex NIE teacher coordinator, HAL School, Lucknow



Student develops his own method of division

Hitarth Singhania, a student of Anand Niketan Satellite Campus, has invented the method of solving division in an innovative and simple manner on his own at the young age of 8 years.

His method is astonishing as well as a marvellous piece of work, beyond the calibre of a child as young as him. He is proof that the word prodigy does exist even today, and he is a perfect example for the same. Coming up with an innovative method of his own has made him different from others. His parents are amazed and proud that their kid has a unique talent.

One day Hitarth was doing his maths homework when his mother noticed that he was using a different method of division. She asked him "Has this method been taught to you in school?". Hitarth denied and responded that this is the method that he has been using since class II. Curiosity led his mother to the school, and she asked the maths teacher if she had taught the students a new method. The teacher



refused and saw the sums that Hitarth was solving. To everyone's amazement all the sums solved by that method turned out to be absolutely correct.

Awestruck by his talent this matter was discussed with the director, vice principal and the principal of the school. Finally, they all concluded that Hitarth has discovered an entirely new method of solving division problems. Once his mother was certain that he had invented a new method, she forwarded it to the India Book of Records. They recognised and applauded this achievement of Hitarth.



There are a plethora of accolades he has received including an award by the India book of records and appreciation by the education minister of Kolkata who proudly declared him as an asset of the nation.

Renowned animal welfare organisations oppose keeping pets. Agree or disagree

Animals are not ours to experiment on, eat, wear, use for entertainment, or abuse in any other way, is a statement that I came across on the internet. Many might claim that animals are very well cared for in their domestic households. What they refuse to acknowledge is that not all people are the same and at the end, it is still a caged life that the animals live.

There is an ever-increasing number of cases where animal welfare organisations rescued pets from abuse at the hands of their owners. Even those who genuinely care for their pets are not always able to provide what is best in terms of physical activity or attention. The suppliers who take away animals - not just cats and dogs, but hamsters, fish, snakes - from their natural habitat, only end up fattening their wallets by trading them.

People walk into pet shops to 'buy' animals based on their appearance without looking at whether or not the climate and geographical conditions they live in are suitable for the animals. Ultimately, we need to realise that we cannot bind animals to us for our own personal entertainment, with little or no regard for their wellbeing.

As Anthony Douglas Williams said, "Animals have hearts that feel, eyes that see, and families to care for, just like you and me".

ALMAS BAQRI, class XII, La Martiniere Girls' College, Lucknow

Besides the companionship and the love they shower, pets have been known to be the best living partners for humans and family life. There is immense mindfulness with pets around, as we are constantly thinking of their welfare and needs. They need care like little babies and have regular demands, which keep us happy and healthy. This alone takes care of the loneliness which affects people like a disease. With pets at home, we need to go for walks, cook food, clean and wash, and keep our environment hygienic. All signs of a good lifestyle.

Pet owners have a separate community, where interactions are spontaneous and carefree. They have groups on social media, in colonies, in neighbourhoods where they bond with their kind and interact on personal issues.

It has been scientifically proven that if one spends time with dogs, horses or cats, a 'Feel Good' hormone is released. History and medical research have verified that they are our life-savers. They help in fighting grief, depression and sadness. Emotional support, unconditional love and providing us mental health are benefits of owning a pet, be it small or big.

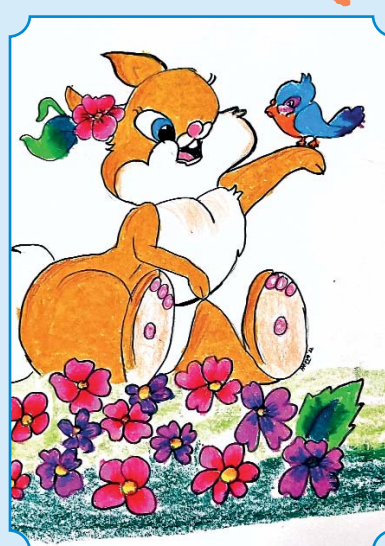
RISHIKA KUKRETI, class XII, CMS Gomti Nagar 2, Lucknow

AGAINST

DEBATE



Creative Corner



Heeva Shah, Class III, Udgam School



Ahana Garg, Delhi Public School, Bopal



Sai Saswat Das, Class V, Siddharth's Miracles School

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LOCAL FAVOURITES MURRAY, RADUCANU ADVANCE

DEFENDING CHAMP DJOKOVIC GETS OFF TO A PATCHY START, ALCARAZ SURVIVES FIVE-SET SCARE AT WIMBLEDON

Andy Murray hit a first under-arm serve at Wimbledon on his way to another late thriller under the Centre Court roof. The Scot, whose plans were disrupted by a side strain, lost the first set to Aussie world No.74 James Duckworth. But urged on by his home crowd, Murray roared back to win 4-6, 6-3, 6-2, 6-4 in two hours and 43 minutes. The double Olympic champ also created a personal bit of SW19 history by serving underarm in the fourth game of the third set - and winning the point.

The former world No.1 first used the cheeky tactic against Carlos Alcaraz in Indian Wells last October. Murray will next face ex-SW19 semi-finalist John Isner after the American world No.24 beat French qualifier Enzo Couacaud 6-7, 7-6, 4-6, 6-3, 7-5.

DJOKOVIC DROPS A SET

Defending champion Novak Djokovic's play was not particularly well, Djokovic-esque, at Wimbledon on Monday. Even he acknowledged as much. He got broken early and trailed 1-3 as he began his bid for a fourth consecutive championship and seventh overall at the grass-court Grand Slam tournament. He recovered to take that set, then dropped the next. He slipped and fell to the grass.

However, the top seed extended his winning streak at the All England Club to 22 and his career

reer victory total to 80. This makes him the first player in tennis history with at least that many at each major by beating Kwon Soon-woo of South Korea 6-3, 3-6, 6-3, 6-4 at Centre Court under the retractable roof.

With the exception of a loss for No. 7 seed Hubert Hurkacz, a semifinalist at the All England Club a year ago, Day 1 signaled a fairly routine return to pre-pandemic normal, with capacity crowds, zero masks, the Wimbledon Queue in full effect.

Hurkacz, coming off a grass title over the weekend, lost 7-6 (4), 6-4, 5-7, 2-6, 7-6 (10-8) to Alejandro Davidovich Fokina in a match that featured Wimbledon's new final-set format: women's third sets and men's fifth sets that get to 6-all will go to a first-to-10-and-win-by-two tiebreaker.

Meanwhile, Isner smacked 54 aces in a 6-7 (6), 7-6 (3), 4-6, 6-3, 7-5 victory over Enzo Couacaud. British major title winner and reigning US Open champ Emma Raducanu defeated Alison Van Uytvanck 6-4, 6-4.

In the other big match of the day, highly rated Spaniard Carlos Alcaraz, nursing a sore elbow, showed why he is considered the next big thing as he toppled Jan-Lennard Struff 4-6, 7-5, 4-6, 7-6(3) 6-4.

The 19-year-old has enjoyed an incredible season on clay and hardcourts - winning titles in Rio, Miami, Barcelona and Madrid - and on Monday he proved he has the skills and mental belief to succeed on the sport's slickest surface. AGENCIES



Andy Murray hit a first under-arm serve at Wimbledon on his way to another late thriller under the Centre Court roof. The Scot, whose plans were disrupted by a side strain, lost the first set to Aussie world No.74 James Duckworth. But urged on by his home crowd, Murray roared back to win 4-6, 6-3, 6-2, 6-4 in two hours and 43 minutes.

Photo: REUTERS

ONS JABEUR DOWNS BJORKLUND

The no. 3 seed Ons Jabeur dropped just four games against qualifier Mirjam Bjorklund in the first round of Wimbledon. For the second major in a row, the Tunisian comes in fresh off a title and in hot form, having won in Berlin two weeks



Photo: GETTY IMAGES

ago and ascended to World No.2 this week. Against Bjorklund, she barely put a foot wrong, striking 11 winners to the Swede's three. She was especially dominant on serve, conceding five points in her first delivery and a measly two next.

NO LET-UP AGAINST INDIA: STOKES

ENGLAND SKIPPER SAYS TEAM WILL PLAY WITH SAME MINDSET IN RESCHEDULED FIFTH TEST

Relentless in their 3-0 sweep of New Zealand, England captain Ben Stokes said there will be no let-up in intensity against India in the upcoming rescheduled fifth Test.

Under the leadership of Stokes and new coach Brendon McCullum, England recorded a phenomenal 3-0 win in the Test series against reigning WTC champions New Zealand, capping it off with a seven-wicket victory in the third and final match.

RENEWED VIGOUR

The one-off Test against India, a part of last year's five-match series, which was abandoned due to a COVID-19 outbreak, will begin at Edgbaston on Friday. "Trust me when I say this. We'll be coming out with exactly the same (aggressive) mindset, even though it's a different opposition," Stokes said on Monday. "Obviously, it's going to be a completely different... different opposition, with their attack and players as well. 'We'll be concentrating on what we've done well over these last three games and look to continue that against India on Friday."

Photo: REUTERS

The visitors are leading the five-match series 2-1 but will face a revitalised England, which has only four members - Ollie Pope, Joe Root, Bairstow and James Anderson - from last year's fourth Test against the Indian team. Stokes himself was not available for the series last year as he had taken a break to focus on his mental health.

INDIA TO TOUR NZ FOR WHITE-BALL SERIES

India will be touring New Zealand for a white-ball series comprising three T20Is and as many ODIs after the World T20 in Australia, New Zealand Cricket (NZC) said on Tuesday. The series will be held between November 18 to 30 and New Zealand will return to India for a white-ball series in January next year.

India will arrive in New Zealand at the conclusion of the World Cup to play the Blackcaps in three T20s at Wellington, Tauranga and Napier, and three ODIs at Auckland, Hamilton and Christchurch, NZC said.

SPECIAL START

England endured a tough time in the last few months, winning just once in 17 Tests before the New Zealand series.

Praising his teammates for turning things around, Stokes said: "To walk away with a 3-0 series win over the best team in the world is a pretty special start." "I've got to show a huge amount of testament to the team over these three games. They've been absolutely phenomenal."

Stokes took over the captaincy after Root relinquished the position following England's 0-1 series defeat to the West Indies in April. "When I took over this job, it was more than results for me. It was about changing the mindset of the lads towards Test cricket, about having fun, and enjoying the fact that you're out there representing your country, and the results look after itself."

"But to say that we've done it so quickly is just unbelievable. I can only do so much, so I've got to show a huge amount of credit to Brendon, in the way that he's come in and influenced this group." PTI

CHESS OLYMPIAD TORCH RELAY REACHES VARANASI

The first-ever Chess Olympiad Torch Relay reached the city of Varanasi in Uttar Pradesh. In Varanasi, the vice-chancellor of Mahatma Gandhi Kashi Vidyapith Dr Anand K Tyagi received the torch from Grandmaster Tejas Bakre and handed it over to the Woman Grandmaster and member of team India at the 44th Chess Olympiad, Vantika.

Earlier on Sunday, the torch had travelled to Lucknow. Other cities that have been covered so far include Leh, Jammu, Srinagar, Dharamshala, Shimla, Chandigarh, Patiala, Amritsar, Panipat, Gurugram, Kurukshetra, Dehradun, Haridwar, Meerut and Kanpur.

The torch,

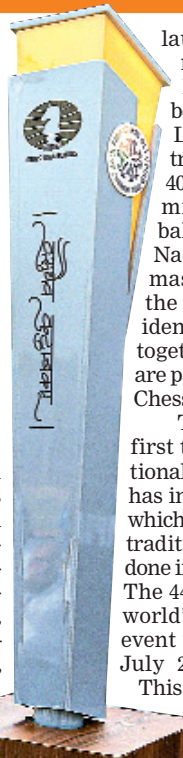


Photo: PTI

launched by prime minister Narendra Modi on Sunday, began its relay from Leh. The torch will travel in 75 cities for 40 days before it culminates at Mahabalipuram in Tamil Nadu. Chess grandmasters will receive the torch at various identified venues. Altogether 189 countries are participating in the Chess Olympiad.

This year, for the first time, the international chess body, FIDE, has instituted the torch which is part of Olympic tradition but was never done in chess olympiads. The 44th edition of the world's biggest chess event will be held from July 28 to August 10. This is the first time India is hosting this event. ANI

QUIZ TIME!

Q1: Who is the top seeded men's singles player in Wimbledon 2022?

- a) Rafael Nadal
- b) Daniil Medvedev
- c) Stefanos Tsitsipas
- d) Novak Djokovic

Q2: Who won the Men's 100m Gold in 2020 Tokyo Olympics?

- a) Yohan Blake
- b) Lamont Marcell Jacobs
- c) Andre De Grasse
- d) Fred Kerley

Q3: England scored the highest ever ODI score of 498/4 runs in 2022, against which team?

- a) India
- b) South Africa
- c) Bangladesh
- d) Netherlands

Q4: In how many stadiums will the Qatar Football World Cup 2022 matches be played?

- a) Ten
- b) Eight
- c) Nine
- d) Six

Q5: The former seven times F1 World Drivers' Championship titles winner Michael Schumacher

belonged to which country?

- a) Germany
- b) Great Britain
- c) Italy
- d) USA



Photo: AP

Q6: Who won the Ballon d'Or 2021?

- a) Lionel Messi
- b) Cristiano Ronaldo
- c) Robert Lewandowski
- d) Mohamed Salah

Q7: Which football club won the 2021 English Premier League title?

- a) Manchester United FC
- b) Arsenal FC
- c) Manchester City FC
- d) Liverpool FC

Q8: Which Indian shooter won the Women's 50m Rifle 3P

silver medal at the ISSF shooting World Cup 2022, held in Baku?

- a) Manu Bhaker
- b) Elavenil Valarivan
- c) Yashaswini Singh Deswal
- d) Anjum Moudgil

ANSWERS:

1. d. Djokovic
2. b. Lamont Marcell Jacobs
3. d. Netherlands
4. b. Eight
5. a. Germany
6. a. Lionel Messi
7. c. Manchester City FC
8. d. Anjum Moudgil