



THE TIMES OF INDIA

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**TODAY'S
EDITION**

➤ Did you know a simple low-end laptop can be made at home with a few bare minimum equipment?
PAGE 2



➤ They say, there's no shortcut to success. Rightly so, as we tell you how you can achieve your goal through hard work
PAGE 3



➤ Serbia stun Portugal to qualify for the 2022 World Cup football tournament
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STUDENT EDITION

TUESDAY, NOVEMBER 16, 2021


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CBSE Boards 2022: Students gear up for big offline test

The Central Board of Secondary Education (CBSE) is all set to conduct the first bifurcated board exams for classes X and XII from Nov 17 and Nov 16, respectively. As per the notification released by the Board, the students appearing for the exams will be given 20 minute-reading time. It will have MCQs and the duration for solving them is 90 minutes. Every question will have four options, of which the student has to encircle the correct one. As every answer sheet will be scanned, no question can be left unanswered. SOURCE: TNN

INSTRUCTIONS FOR D-DAY FOR STUDENTS

- Apart from remembering to carry their admit cards to the exam hall, students must report to the exam centre at least one hour prior to the commencement and be seated on time
- Covid-19 safety protocols to be followed. Hence, students must wear masks, use sanitisers and maintain social distancing at all times
- All exams will begin at 11:30 am and students would get 20 minutes of reading time, instead of the previous 15 minutes
- In case a student is having any symptoms of cold, cough or fever, they must report it to their school immediately
- Students must take extra care while filling the details in OMR sheet and make sure that all details are correct.



➤ Meanwhile the Supreme Court of India on Monday postponed the hearing of the CBSE and CISCE students seeking an option of online mode along with the centre-based offline exams to November 18. The plea, filed by six students who would be taking the Board examinations, alleged that the entire exercise of the boards in conducting the term one or semester one examinations in offline mode only is "unreasonable"

FACTOID

3 BILLION YEARS

That's the time when Earth's first continents emerged from the oceans. According to scientists, it's at least 700 million years earlier than previously thought. Researchers from the Monash University studied the sedimentary and igneous rocks of an ancient continental fragment in India called the Singhbhum Craton.

THE RISE OF EARTH'S CONTINENTS



1 Scientists say, the emergence of Earth's earliest continental landmasses around 3.3-3.2 billion years ago would have had a profound impact on our planet's atmosphere, oceans and climate

2 The erosion of continental material into the oceans would have provided nutrients to coastal environments, leading to a boom in photosynthetic life that helped to create the oxygen rich atmosphere we breathe today

3 The presence of beaches at this time shows that a continental landmass must have emerged in what we now know as India by at least 3 billion years ago, in order to provide the material from which the beach formed, they add

4 Most ancient continents – the Singhbhum Craton included – are built up of granite, formed from the melting of pre-existing rocks at the base of the crust

Man breaks world record after standing on hot air balloon at 13,175 feet



A French man broke a world record for standing on top of a hot air balloon at more than 13,000 feet up in the air. He rode the hot air balloon to raise money for a charity. Remi Ouvrard, 28, posted a view of himself standing on the hot air balloon while he was at 3,637 metres (11,932 feet) above the ground. The altitude represents the phone number of France's annual charity campaign Telethon, 36-37. He aimed to raise money for rare neuromuscular diseases. Ouvrard thought it would be great to reach the altitude but the balloon soared even higher to 13,175 feet over Châteleraut in western France. The ride lasted for about 90 minutes and was operated by Ouvrard's father. Ouvrard live-streamed his adventurous ride on Facebook using a selfie stick during the early part of the flight.

The ride on the hot air balloon broke Ouvrard's previous world record of 3,992 feet

IN OTHER NEWS

Bangladesh calls for inclusive Indian Ocean without any unilateral dominance

Bangladesh has called for an open, free, peaceful and inclusive Indian Ocean instead of any single country's dominance ahead of the upcoming Indian Ocean Rim Association (IORA) Council of Ministers' (COM) meeting on November 17. Bangladesh will be hosting the 21st IORA COM meeting as it takes up the chairmanship for the first time in 24 years. 'Indo-Pacific Vision' will also come up for discussion.



■ IORA has six priority and two focus areas identified on the basis to promote sustained growth and balanced development in the Indian Ocean Region.

■ These are maritime safety and security, trade and investment facilitation, fisheries management, disaster risk management, tourism and cultural



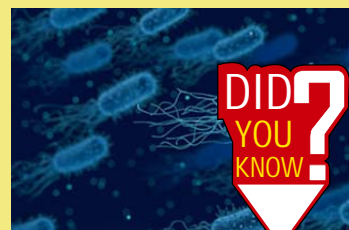
exchanges, academic, science and technology cooperation, blue economy, and women's economic empowerment

BTS, Ed Sheeran among top winners at MTV European Music Awards

At the 2021 MTV European Music Awards held on Sunday, popular Korean band BTS and British singer-songwriter Ed Sheeran emerged as the big winners. As per Variety, BTS won the most awards, including Best Pop, Best Group, Best K-Pop and Biggest Fans, but were not on hand to collect the awards. Sheeran, who was present, won the Best Artiste and Best Song for 'Bad Habits'. Justin Bieber, who was the frontrunner with eight nominations, didn't win any awards.



Antarctic bacteria live on air and make their own water using hydrogen as fuel!

TRIVIA


DID YOU KNOW?

Humans have only recently begun to think about using hydrogen as a source of energy, but bacteria in Antarctica have been doing it for a billion years. Scientists studied 451 different kinds of bacteria from frozen soils in East Antarctica and found most of them live by using hydrogen from the air as a fuel. These incredible microorganisms come from ice-free desert soils north of the Mackay Glacier in East Antarctica.

Eyeing LA Olympics, ICC could award 2024 T20 World Cup to USA

The USA is likely to host the T20 World Cup in 2024, which could serve as a launch pad in the ICC's bid for cricket's inclusion in the 2028 Los Angeles Olympics. The ICC is expected to award a joint bid by USA Cricket and Cricket West Indies to host the 2024 T20 showpiece.

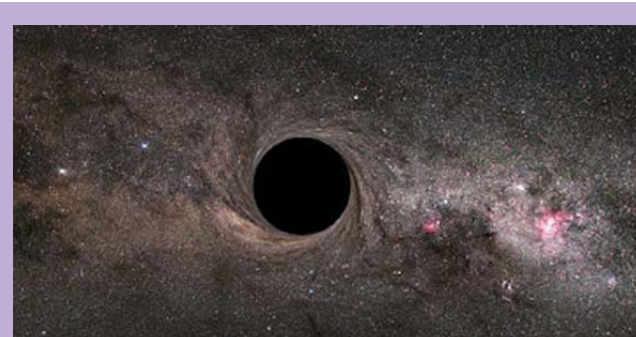
If all goes as per the plans, it would be the first global tournament not hosted by either India, England or Australia since the 2014 T20 World Cup in Bangladesh



■ The 2024 T20 WC is expected to have 20 teams and 55 matches as compared to the 2021 and 2022 editions, which have seen 16 teams playing 45 matches ■ Between 2024 and 2031, the ICC is set to host several global tournaments

Astronomers spot black hole outside Milky Way galaxy

Astronomers have discovered a small black hole outside the Milky Way by looking at how it influences the motion of a star in its close vicinity. The newly-found black hole was spotted lurking in NGC 1850, a cluster of thousands of stars roughly 160,000 light years away in the Large Magellanic Cloud – a neighbour galaxy of the Milky Way. The detection in NGC 1850 marks the first time a black hole has been found in a young cluster of stars (the cluster is only around 100 million years old, a blink of an eye on astronomical scales).



The black hole is roughly 11 times as massive as our sun. Astronomers started on the trail of this black hole due to its gravitational influence on the five-solar-mass star orbiting it

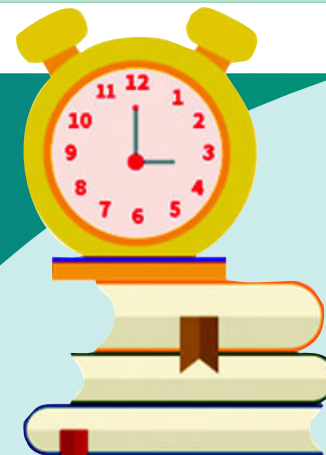
Instagram will soon start asking you to take a break if you use the app for too long

Facebook (now Meta)-owned photo sharing platform Instagram is all set to start a new feature that helps users take quick breaks from Instagram. Called 'Take a Break', this feature will help users to take a step towards taking a break from the social media platform after spending a certain amount of time on the platform. The feature has been announced in a bid to prevent addiction from the platform and comes at a time when several reports have pointed to the fact that Facebook apps are addictive for users.

This feature won't be enabled by default and users will have to turn it on to receive in-app reminders to take a break from the Instagram app after continuously using it for 10, 20, or 30 minutes



SUM UP YOUR SPEED & ACCURACY IN MATHS



PRACTICE PAPER SET BY MATHEMATICS DEPARTMENT, ASSISI VIDYANIKETAN PUBLIC SCHOOL, ERNAKULAM

SECTION-A

Section-A consists of 20 questions of 1 mark each. Any 16 questions are to be attempted

Q1) The decimal expansion of the rational number $\frac{10}{2 \cdot 5^2}$ will terminate after [1]

- (A) one decimal place
(B) two decimal places
(C) three decimal places
(D) more than 3 decimal places

Q2) The pair of equations

$$5x - 15y = 8 \text{ and } 3x - 9y = \frac{24}{5} \text{ has [1]}$$

- (A) one solution (B) two solutions
(C) infinitely many solutions
(D) no solution

Q3) ABC and BDE are two equilateral triangles such that D is the mid point of BC. Ratio of the areas of triangles ABC and BDE is [1]

- (A) 1:2 (B) 2:1 (C) 1:4 (D) 4:1

Q4) If in triangles ABC and DEF, $\frac{AB}{BC} = \frac{DE}{FD}$, then they will be similar, when [1]

- (A) $\angle B = \angle E$ (B) $\angle A = \angle D$
(C) $\angle B = \angle D$ (D) $\angle A = \angle F$

Q5) The probability of getting a bad egg in a lot of 400 is 0.035. The number of bad eggs in the lot is [1]

- (A) 7 (B) 14 (C) 21 (D) 28

Q6) D and E are respectively the points on the sides AB and AC of a triangle ABC such that AD=2 cm, BD=3 cm, BC=7.5 cm and DE || BC. Then, length of DE (in cm) is [1]

- (A) 2.5 (B) 3 (C) 5 (D) 6

Q7) If $\sin \theta - \cos \theta = 0$, then the value of $(\sin^2 \theta + \cos^2 \theta)$ is [1]

- (A) 1 (B) 3/4 (C) 1/2 (D) 1/4

Q8) If two positive integers a and b are written as $a = x^2 y^2$ and $b = xy^3$, x, y are prime numbers, then HCF (a, b) is [1]

- (A) xy (B) xy^2 (C) $x^2 y^2$ (D) $x^2 y^3$

Q9) One equation of a pair of dependent linear equations is $-5x + 7y = 2$. The second equation can be [1]

- (A) $10x + 14y + 4 = 0$ (B) $-10x - 14y + 4 = 0$
(C) $-10x + 14y + 4 = 0$ (D) $10x - 14y = -4$

Q10) The distance of the point P (2, 3) from the x-axis is [1]

- (A) 2 (B) 3 (C) 1 (D) 5

Q11) The fourth vertex D of a parallelogram ABCD whose three vertices are A (-2, 3), B (6, 7) and C (8, 3) is [1]

- (A) (0, 1) (B) (0, -1) (C) (-1, 0) (D) (1, 0)

Q12) The product of a non-zero rational and an irrational number is [1]

- (A) always irrational (B) always rational
(C) rational or irrational (D) one

Q13) If $\sqrt{3} \tan \theta = 1$, then find the value of $\cos^2 \theta - \sin^2 \theta$ [1]

- (A) $\frac{1}{2}$ (B) 0 (C) 2 (D) 1

Q14) If $4 \tan \theta = 3$, then $\frac{4 \sin \theta - \cos \theta}{4 \sin \theta + \cos \theta}$ is equal to [1]



$$(A) \frac{2}{3} \quad (B) \frac{1}{3} \quad (C) \frac{1}{2} \quad (D) \frac{3}{4}$$

Q15) If the sum of the areas of two circles with radii R_1 and R_2 is equal to the area of a circle of radius R , then [1]

- (A) $R_1 + R_2 = R$ (B) $R_1^2 + R_2^2 = R^2$
(C) $R_1 + R_2 < R$ (D) $R_1^2 + R_2^2 < R^2$

Q16) If $\triangle ABC \sim \triangle QRP$, $\frac{ar(\triangle ABC)}{ar(\triangle QRP)} = \frac{9}{4}$, AB = 18 cm and BC = 15 cm, then PR is equal to [1]

- (A) 10 cm (B) 12 cm (C) $\frac{20 \text{ cm}}{3}$ (D) 8 cm

Q17) $\triangle ABC$ is such that AB = 3 cm, BC = 2 cm and CA = 2.5 cm. If $\triangle DEF \sim \triangle ABC$ and FE = 4 cm, then find the perimeter of $\triangle DEF$. [1]

- (A) 12 cm (B) 13 cm (C) 14 cm (D) 15 cm

Q18) The value of $\frac{2 \tan 30^\circ}{1 + \tan^2 30^\circ}$ is: [1]

- (A) $\sin 60^\circ$ (B) $\cos 60^\circ$ (C) $\tan 60^\circ$ (D) $\sin 30^\circ$

Q19) For what value of k , the pair of equations $4x - 3y = 9$, $2x + ky = 11$ has no solution: [1]

- (A) $\frac{9}{11}$ (B) $\frac{1}{2}$ (C) $-\frac{3}{2}$ (D) $\frac{2}{3}$

Q20) The probability that a non-leap year selected at random will contain 53 Sundays is [1]

- (A) $\frac{1}{7}$ (B) $\frac{2}{7}$ (C) $\frac{3}{7}$ (D) $\frac{5}{7}$

SECTION-B

Section-B consists of 20 questions of 1 mark each. Any 16 questions are to be attempted

Q21) The largest number which divides 70 and 125, leaving remainders 5 and 8, respectively, is [1]

- (A) 13 (B) 65 (C) 875 (D) 1750

Q22) If the lines given by $3x + 2ky = 2$ and $2x + 5y + 1 = 0$ are intersecting, then the value of k is [1]

- (A) $-\frac{5}{4}$ (B) $\frac{2}{5}$ (C) $\frac{15}{4}$

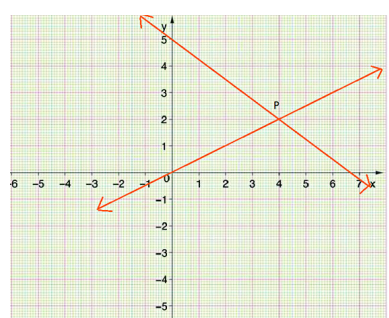
(D) any real number other than $\frac{15}{4}$

Q23) $\sqrt{3} \cot 2x = \cos 60^\circ + \sin 45^\circ \cdot \cos 45^\circ$, then x equal to [1]

- (A) 15° (B) 30° (C) $1/\sqrt{3}$ (D) 60°

Q24) The area of the triangle formed with the graph of equations

$$x - 2y = 0, 3x + 4y = 20 \text{ and } y\text{-axis is [1]}$$



- (A) 20 sq. units (B) 10 sq. units
(C) 7 sq. units (D) 6.5 sq. units

Q25) The LCM of two prime numbers p and q ($p > q$) is 143. Find the value of $3p - q$. [1]

- (A) 20 (B) 28 (C) 38 (D) 48

Q26) A jar contains 24 marbles, some are green and others are blue. If a marble is drawn at random from the jar, the probability that it is green is $2/3$. Find the number of blue balls in the jar. [1]

- (A) 16 (B) 8 (C) 14 (D) 12

Q27) The probability of selecting a prime number from numbers lying between 10 and 30 is [1]

- (A) $\frac{1}{5}$ (B) $\frac{3}{10}$ (C) $\frac{1}{3}$ (D) $\frac{6}{19}$

Q28) $\frac{\sin \theta}{1 + \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} =$ [1]

- (A) $2 \csc \theta$ (B) $2 \cos \theta$ (C) $2 \sec \theta$ (D) $2 \sin \theta$

Q29) A line intersects the y-axis and x-axis at the points P and Q, respectively. If (2, -5) is the mid-point of PQ, then the coordinates of P and Q are, respectively [1]

- (A) (0, -5) and (2, 0) (B) (0, 10) and (-4, 0)
(C) (0, 4) and (-10, 0) (D) (0, -10) and (4, 0)

Q30) $\triangle ABC$ is an isosceles triangle with AB = AC = 13 cm. The length of the altitude from A on BC is 5 cm. Find BC. [1]

- (A) 20 cm (B) 26 cm (C) 24 cm

Q31) D, E and F are respectively the mid-points of sides AB, BC and CA of $\triangle ABC$. Find the ratio of the areas of $\triangle DEF$ and $\triangle ABC$. [1]

- (A) 2 : 1 (B) 4 : 1 (C) 1 : 2 (D) 1 : 4

Q32) The value of $\sec A (1 - \sin A)$ (sec A + $\tan A$) is [1]

- (A) 1 (B) 3 (C) 2 (D) 4

Q33) In a school there are two sections, namely A and B, of class X. There are 30 students in section A and 28 students in section B. Find the minimum number of books required for their class library so that they can be distributed equally among students of section A or section B. [1]

- (A) 58 (B) 420 (C) 2 (D) None of these.

Q34) D and E are points on the sides AB and AC respectively of a $\triangle ABC$ such that DE || BC. Find the value of 'x' when AD = x cm, DB = (x - 2) cm, AE = (x + 2) cm and EC = (x - 1) cm. [1]

- (A) 2 cm (B) 3 cm (C) 4 cm
(D) None of the above

Q35) The point on x-axis which is equidistant from the points (5, -2) and (-3, 2) is [1]

- (A) (0, 1) (B) (-1, 0) (C) (1, 0) (D) (0, 9)

Q36) In the below figure, ABPC is a quadrant of a circle of radius 14 cm and a semicircle is drawn with BC as diameter. Find the area of the shaded region. [1]

- (A) 98 cm² (B) 154 cm²
(C) 210 cm² (D) 406 cm²

Q37) Area of the largest triangle that can be inscribed in a semi-circle of radius r units is [1]

- (A) r^2 sq. units (B) $1/2 r^2$ sq. units
(C) $2 r^2$ sq. units (D) $\sqrt{2} r^2$ sq. units

Q38) If α, β are the zeroes of the polynomial $x^2 - 16$, then $\alpha^2 + \beta^2$ is [1]

- (A) 32 (B) -16 (C) -32 (D) 16

Q39) The solution of pair of equations $2^{x-y} = 16$ and $3^{x+y} = 9$ is [1]

- (A) (1,3) (B) (3,1) (C) (-1,3) (D) (-3,1)

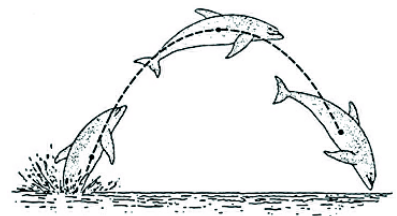
Q40) Three horses are tethered with 7-metre-long ropes at the three corners of a triangular field having sides 22 m, 34 m and 40 m. Find the area of the plot, which can be grazed by the horses. [1]

- (A) 77 sq. units (B) 154 sq. units
(C) 33.5 sq. units (D) 11 sq. units

SECTION-C

Section-C consists of 10 questions of 1 mark each. Any 8 questions are to be attempted.

Q41-Q45 are based on Case Study-1
The figure given below shows the path of a dolphin when it takes a dive. Clearly it is a parabola which is the graphical representation of quadratic polynomial.



Q41) If the above parabola is represented by the polynomial $P(x) = ax^2 + bx + c$ then

'a' should be [1]
(A) less than zero (B) greater than zero
(C) equal to zero
(D) greater than or equal to zero

Q42) The number of real zeroes for the quadratic polynomial is [1]
(A) exactly two (B) at least two
(C) at most two (D) less than two

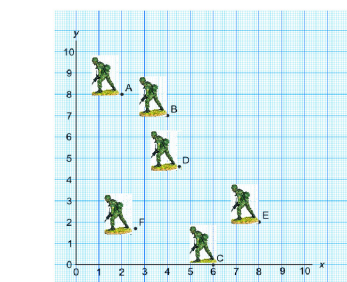
Q43) If one zero of the quadratic polynomial $P(x) = kx^2 + 4x - 1$ is $1/2$ then the value of k is [1]
(A) 2 (B) -4 (C) 4 (D) -12

Q44) If α and β are the zeros of a quadratic polynomial $P(x) = -3x^2 + 2x - 1$ then the value of $\frac{1}{\alpha} + \frac{1}{\beta}$ is [1]
(A) 2 (B) $2/3$ (C) $1/3$ (D) None of these

Q45) If α and β are the zeros of a quadratic polynomial $P(x) = -3x^2 + 2x - 1$ then the polynomial whose zeros are $\frac{1}{\alpha}, \frac{1}{\beta}$ is [1]
(A) $P(x) = 3x^2 - 6x + 1$ (B) $P(x) = 3x^2 + 2x + 1$
(C) $P(x) = x^2 - 2x + 3$ (D) None of these

Q46-Q50 are based on Case Study-2

Our military deserves to be honored and appreciated. The freedom and liberty we enjoy is much because of the brave men and women of the military who dedicate their lives to protecting the nation. In the below figure the soldiers are ready for the action and have taken positions A, B, C, D, E and F. Observe the co-ordinates of A, B, C, D, E, F and answer the following questions.



Q46) The co-ordinates of A and E are [1]
(A) (8, 2) and (6, 0) (B) (8, 2) and (8, 2)
(C) (2, 8) and (8, 2) (D) (2, 8) and (2, 8)

Q47) The distance AE is [1]
(A) $3\sqrt{2}$ units (B) $6\sqrt{2}$ units
(C) $2\sqrt{6}$ units (D) None of these

Q48) The distance of point B from the Origin is [1]
(A) $\sqrt{65}$ units (B) 11 units
(C) $\sqrt{55}$ units (D) None of these

Q49) The mid-point of BC is [1]
(A) (5, 3.5) (B) (7/2, 5)
(C) (-1, 3.5) (D) (10, 7)

Q50) The point on y-axis which is equidistant from the A and B is [1]
(A) $(\frac{3}{2}, 0)$ (B) $(\frac{7}{2}, 5)$ (C) (0, 1.5) (D) $(\frac{3}{4}, 0)$

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.

MY SCHOOL PROJECT | DIY COMPUTER

A custom-made connect with cyber world

Electronics prices peaked during the time of the pandemic. Today, a simple low-end laptop/PC costs a lot of money, but did you know that we can make one for about half the price of the original one.

So, to build a PC that performs exceptionally well, we need a few things:

- Single-board computer
- SD card
- Peripherals
- Hard Drive (optional)

And that's it! That's all we need. Also, no need of power supply like in those huge PCs, as these are powered by a normal phone charger and these single board computers have in-built RAM.

We can use either a Raspberry Pi or a NVIDIA Jetson Nano. For those of you who don't know about Raspberry Pi, it is a sin-

gle board computer made in UK for teaching basic computer science in schools and Jetson Nano is a low-power system and is designed for accelerating machine learning applications and computing. Both have different RAM configurations and do not need an SSD or a HDD to boot, as they use an SD-card as primary storage and for the booting process.

Raspberry Pi comes with a RAM configuration of 1GB, 2GB, 4GB and 8GB. (prices vary based on RAM configuration). Jetson Nano has comparatively less options, ie: 2GB and 4GB.

Nano has a more powerful GPU in it, while Raspberry Pi has a wide range OS to be used with it, ranging from Linux to Windows 10, 11 to gaming OS and many more, but Jetson Nano has only a special image (OS) of Ubuntu that is made by NVIDIA. You can buy them from trusted websites.

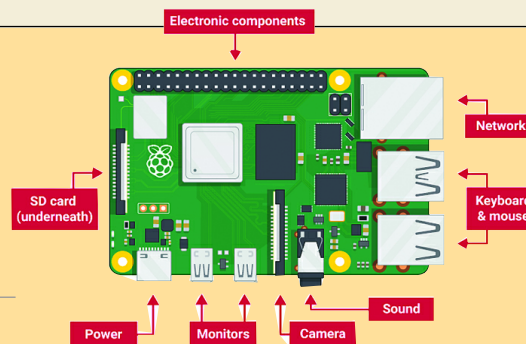
HOW TO SET IT UP

• An SD card of at least 8GB is required, one of up to 1TB capacity can be used. Now we need a laptop/PC for the next step. We need to install SD card formatting app, and an application that writes or flashes the respective OS to SD card like etcher.io.

• You can find more information online about supported images and how to flash them. We need to download the OS or image from their website for eg: <https://www.raspberrypi.org/software/operating-systems/#raspberrypi-os-32-bit>. We can use a HDD, SSD or a thumb drive as extended storage. Both of these boards have 4 USB ports, an ethernet port, HDMI.

• In addition to this Raspberry Pi has wifi and bluetooth built in unlike Nano (Nano doesn't have built-in wifi or bluetooth). Both of these have GPIOs (general purpose input output pins) using which you can build projects based on robotics.

• "Rasbian OS" is the basic OS for Raspberry Pi



based on Linux. Like this there are many operating systems for the Raspberry Pi and Ubuntu for Jetson.

• Now we need to format the SD card using SD card formatter (formatting will delete all the files on it). After downloading the OS file, locate it (the OS zip file) extract it and open up etcher.io and flash the image (OS) to the SD card. (Instead of the etcher, we can also use the original Raspberry Pi flasher app built by their team. It has more options like in-built OS downloader and flasher, SD card formatter and third party OS).

Now all we have to do is to eject the SD card from the laptop/PC and place it in the Jetson Nano's or Raspberry Pi's SD card slot.

We will need a monitor. If you don't have one, you can connect it to TV as they use HDMI for video output.

Connect it to a charger and watch it boot. After booting, connect it to a mouse and keyboard and you can use it as a PC. (If you don't have a computer to flash OS to SD card you can buy a kit that comes with NOOBS SD card. NOOBS is in-built setup os for Raspberry Pi).



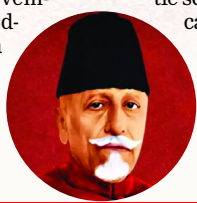
M. PUNEETH,
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EDUCATION, THE KEY TO PROGRESS



To commemorate the birth anniversary of Maulana Abul Kalam Azad, the freedom fighter, eminent educationist and the first Union education minister, November 11 is celebrated as the National Education Day or Rashtriya Shiksha Diwas every year. The day remembers the contributions of Maulana Azad in laying the foundation of the education system in an independent India.

Celebrating the day, the students of classes III and IV took part in various activities including 'Back to School' and 'Making a Graduation Cap' art and craft activities based on the theme of importance of education. The students of class III made DIY paper



Delhi Public School Nacharam

school backpacks as part of the 'Back to School' activity under the guidance of their teachers. The students of class IV made graduation caps with paper. The students looked like little scholars after adorning the graduation caps. The teachers explained to the students about the significance of the day and the contributions made by Maulana Azad in bringing a change in the quality of education in India. They also shared how education plays a life-changing role in our lives and the well being of society.

This endeavour aimed at creating awareness among the students on the importance of literacy and education in society. The students took keen interest in the activities and in all it was a great learning experience for them.



Time to scare!

"DOUBLE, DOUBLE TOIL AND TROUBLE; FIRE BURN AND CALDRON BUBBLE."

DPS Mahendra Hills in its pursuit of providing a global cultural perspective to students organised a Halloween party.

Delhi Public School Mahendra Hills

The school campus was decked up with Halloween-themed decorations. Students from Pre-Primary to class VIII had a gala time being part of the event. The atmosphere was vibrant as the children were dressed in their scariest best. They enjoyed making Hal-

loween crafts, playing games and danced on the tunes of Halloween songs.

Teachers shared the tradition and history of Halloween. The event encouraged the students to appreciate the differences in cultures and customs and develop mutual respect.

Celebrating important days together



Unicent School, Nagole, conducted a special assembly on Diwali in school. The regular proceedings of the assembly were followed by an informative speech on the significance of Diwali. A group of students then sang a spirited song on the festival.

The school also marked the UN Child Rights Day with a speech presented by a student of class VI. Later, a pledge on Nation-

Saanvi Sinha, class VIII-A, Unicent School Nagole, Hyderabad

al Unity Day was taken by everyone on the occasion of the birth anniversary of Sardar Vallabhai Patel who had played a major role in the political integration of India. All students along with the teachers took part in the assembly.

IIMUN MEET HELD



Gitanjali Senior School Hyderabad

The IIMUN, Hyderabad chapter, was hosted by Gitanjali Senior School. The opening ceremony was marked by a beautiful classical Kalangan dance.

Aleifiya Bagasrawala of Flame University gave a presentation while Maya Sukumaran, Principal, Gitanjali Senior School, addressed the

audience and inspired them with her motivational speech.

The occasion was graced by the presence of Vishnu Vimala, a Telugu singer, actor and dancer; and film director Harish Shanker, who gave an insight into their profession. The guest of honour was Salim Merchant of the Hindi film world.

The delegates who were allotted different agendas addressed various issues. The second day was marked by a yoga session conducted by Rina Hindocha. This was followed by the committee session. It was an informative session with fruitful interactions on an array of topics of importance.



INSPIRING ICONS
ARUNIMA SINHA

NOTHING IS IMPOSSIBLE

Arunima Sinha, the world's first female amputee to scale the Mount Everest, inspires me as she proved to the world the heights a person can reach with dedication and determination.

Her left leg was amputated below the knee following an altercation with robbers on a running train. Despite her injury, she managed to scale the highest peaks of the world and received the Padma Shri.

Her immense self-belief and determination is an inspiration and what I like about her is that she doesn't seek sympathy. She just proved everyone wrong and portrayed the real power of a woman.

Arunima Sinha's commendable control over the mind is what kept her going to make and break world records. She inspires me not to look back and always move forward until we reach our goal. She proved that nothing is impossible.



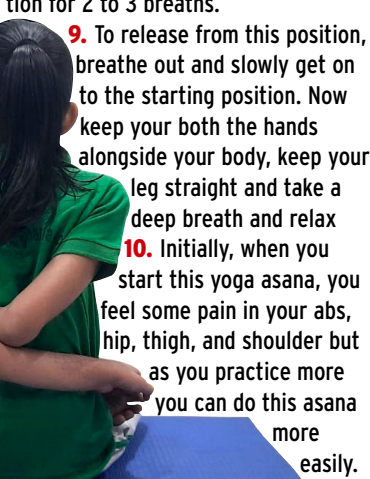
M MOKSHA, class VIII, Sister Nivedita School, Hyderabad

BADDHA PADMASANA

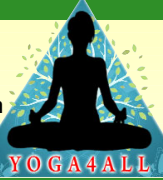
Baddha Padmasana is a Sanskrit word. 'Baddha' means locked or closed, 'Padma' means lotus flower and 'asana' means pose or posture.

INSTRUCTIONS

1. To start this asana get on the yoga mat and sit in Padmasana.
2. Try to keep your feet high on your thighs.
3. Place your right arm behind your back and try to reach round till your right hand is close to your left hip and try to grasp the right thumb of the toe.
4. In the same way, place your left arm behind your back crossing over the right arm and try to reach round till your left hand is close to your right hip.
5. Now little bend forward and try to grasp the left thumb of your toe.
6. Try to be in this position for few second. Now your arms and legs are tightly locked in this position, try to keep your spine, neck and head straight.
7. Look straight and breathe normally.



PE DEPARTMENT,
Lakshmi Pat Singhania
Academy, Kolkata



BENEFITS

1. It stretches the joints of shoulders, wrists, back, elbows, hips, knees, ankles and makes them more flexible.
2. Beneficial for shoulders and back pain.
3. It improves the posture of the spine.
4. It helps to ease constipation and improves the functions of the digestive system.
5. Daily practice of this asana helps arthritis patients.

PRECAUTIONS

People who suffer from back pain, knee pain or stomach ache should avoid Padmasana. Also, people who suffer from a spine injury, leg injury, ankle weakness or injury, sciatica or pregnancy should avoid this asana.

Yoga should be practiced under the supervision of Yoga Guru. The views expressed in the above article are those of the author and the newspaper takes no responsibility for it.

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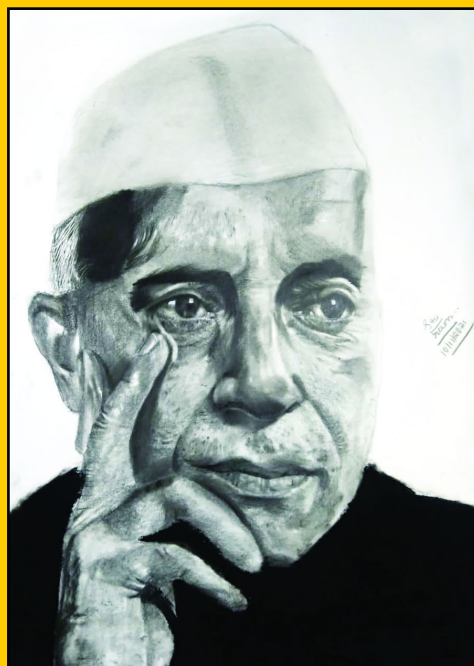
LEADER WITH A VISION: P SAI SREE, class IV, Little Flower High School, Abids

Painters' Gallery



FUTURE BLOOMS: LASHYA, class IV-J, Delhi Public School, Nacharam

INDIA'S ICON: TADEPALLI SRIRAM, class VIII, Bharatiya Vidya Bhavan's Atmakuri Rama Rao School, Hyderabad



COVER STORY: MADADI AKSHAYA REDDY, class VII B, P Obul Reddy Public School, Hyderabad

MUGURUZA SETS UP
ALL-SPANISH SEMIS

Pliskova beats Krejckikova but fails to make the cut



Photo: GETTY IMAGES

Today was a match that was kind of everything or nothing, round-robin with a loss, it was never good. To finally get two wins and qualify was amazing.

GARBINE MUGURUZA

Spain's Garbine Muguruza reached the semi-finals of the season-ending WTA Finals in Guadalajara, Mexico, after beating Anett Kontaveit, while Karolina Pliskova missed the cut despite her comeback victory over Barbora Krejckikova. Muguruza ended Kontaveit's 12-match winning streak with a 6-4 6-4 win over the Estonian, booking a spot in the knockout stage for the first time since her tournament debut in 2015. She won a remarkable 80% of her first serve points and fired seven aces in Sunday's victory as she finished second in the "Teotihuacan Group" behind Kontaveit, with both posting a 2-1 record. "Today was a match that was kind of everything or nothing," Muguruza told reporters. "Starting the round-robin with a loss, it was never good. To finally get two wins and qualify was amazing."

ALL-SPANISH CONTEST

Two-time Grand Slam champion Muguruza will face compatriot Paula Badosa in Tuesday's semi-final. The winner of the contest will be the first Spanish woman to reach the final since Arantxa Sanchez Vicario finished runner-up in 1993. "I didn't know all of this history," Muguruza said. "1993, I was born that year. It's amazing that there are four players left and two of them are Spaniards. That just shows that Spain has a great level of tennis."

PLISKOVA BEATS
COMPATRIOT

Earlier, Pliskova came out on top in an all-Czech showdown, storming back to stun compatriot Krejckikova 0-6 6-4 6-4. Despite the win, Pliskova failed to reach the semi-finals as she finished third in the group, with Kontaveit and Muguruza advancing as the top two. Sec-

ond-seeded Krejckikova ended bottom after losing all three matches.

"The first game was super long and I somehow lost my focus and of course I was a bit nervous to play a Czech woman," Pliskova said after the match. "It wasn't easy at all, at some point I thought it is almost over in the second when she broke me to go up 4-2. I am proud that I kind of stayed there and fought for it."

Having never taken a set off Pliskova in two career meetings, Krejckikova quickly took care of that little bit of business with the French Open champion steamrolling through the opener in just 26 minutes. Pliskova committed 12 unforced errors in the opening set

but the former world number one steadied herself in the second. She still found herself in a hole when Krejckikova grabbed an early break on her way to a 4-2 lead.

With her opponent on the ropes, Krejckikova could not deliver the knockout blow as Pliskova dug deep sweeping the next four games to level the contest. Pliskova's powerful serves and pinpoint forehands helped her fend off break points at 2-2 and 4-4 before she completed her comeback in a closely contested decider.

The WTA Finals divides the top eight players into two groups of four, with each player competing in three matches. The top two from each group advance to the semi-finals. **REUTERS**

ZVEREV WINS AFTER BERRETTINI INJURY

2018 champion Alexander Zverev won when local favorite Matteo Berrettini of Italy retired early in the second set with an apparent abdominal injury. Zverev won the first set 7-6 (7) and was leading 1-0 in the second when Berrettini dropped his racket to the ground, covered his face and bent over in apparent pain. "The atmosphere was one of the best I felt ever in my life and that's why it feels so bad right now," Berrettini said. "The worst thing that could have happened happened." The result moved



Photo: AP

Zverev ahead of Medvedev atop the Red Group in the round-robin format.

Zverev saved two set points at 5-6 in a long first set, with the crowd erupting into soccer stadium chants whenever Berrettini won big points.

Berrettini is slated to play on Italy's team in the Davis Cup finals - also in Turin - the week after the ATP Finals. "Tomorrow with my team and the doctors I'll do some checks," Berrettini said. "I really hope it's not something that keeps me from playing." **AP**

SERBIA SHOCKS PORTUGAL

Late goal by Mitrovic sees team join Spain, Croatia at World Cup



Aleksandar Mitrovic

Photo: AFP

Spain, Serbia and Croatia are heading to next year's World Cup. Sweden, Portugal and Russia aren't - not yet, anyway. Portugal still has a chance to qualify, but it must navigate a four-team bracket in the playoffs in March.

Aleksandar Mitrovic's 90th-minute header left Cristiano Ronaldo and Portugal stunned in a 2-1 win for Serbia in Lisbon, which gave Serbia an automatic qualifying spot at the World Cup in Qatar. All of the teams which booked a World Cup place in Europe on Sunday did so with dramatic late goals.

Portugal was in a strong position when Renato Sanches scored the opening goal after just two minutes against Ser-

IN OTHER MATCHES

- Spain only needed a draw in its last game against Sweden to qualify, but Alvaro Morata made sure in the 86th minute with the only goal in a 1-0 win to leave veteran Sweden star Zlatan Ibrahimovic's hopes of another World Cup appearance depending on the playoffs.
- Croatia laid siege to Russia's goal on a waterlogged field for a 1-0 win.
- Greece and Kosovo drew 1-1.
- Ireland won 3-0 at Luxembourg.
- Slovenia beat Cyprus 2-1.
- North Macedonia remains in contention to reach a World Cup for the first time after beating Iceland 3-1 to secure a spot in the playoffs.

bia, but Dusan Tadic kept Serbia in the game with an equalizer in the 33rd.

Mitrovic's late header silenced the crowd and shocked Portugal's players, including Ronaldo, who sat on the field at the final whistle. "It was an amazing game, fully deserved," Mitrovic said. "I think we deserved to win the game and to be in Qatar."

Mitrovic said Serbia's confidence ahead of the game was vindicated by a bold performance. "We came here to play football and having been the better side, we earned it all. We are reaping the rewards of hard work and the belief that we would be able to defy the odds and beat Portugal. We are overjoyed, for our country and the people first and foremost."

Portugal's comparatively strong record in the group means it will be one of the seeded teams for the playoffs in March and will get a home draw for the single-leg bracket semifinal game. **AGENCIES**

HAMILTON HAS
STUNNING VICTORY

Mercedes driver Lewis Hamilton ended "the hardest weekend I've had" with a stunning victory at the Brazilian Grand Prix, and gained momentum in his Formula One title fight with Red Bull driver Max Verstappen, with a 10-second advantage. Hamilton, a seven-time world champion, beat Verstappen despite starting from 10th position on the grid due to a penalty, the second Hamilton faced this weekend in Sao Paulo. Verstappen, the winner of the race's previous edition in 2019, finished second and saw his lead in the driver's championship shrink to 14 points, with three races left. The winner of a race gets 25 points.

"Let's keep pushing," Hamilton said on team radio after his sixth victory of the season. He took a Brazil flag to celebrate his win in the car and on the podium, just as his idol Ayrton Senna did.



Photo: AP

He, however, received a further penalty from stewards after the race ended - a 5,000 euro (\$5,700) fine with an additional 20,000 euros (\$23,000), which is suspended through the end of 2022, for undoing his seat belts on the in-lap at the end, to take the flag.

Hamilton's teammate, Valtteri Bottas, finished third.

Mercedes is now 11 points ahead of Red Bull in the constructor standings. **AP**

QUIZ TIME!

Q1: Which of the following Indian Sports Team is also known as "The Bhangra Boys"?

- a. Cricket Team
- b. Hockey Team
- c. Kabaddi Team
- d. Football Team

Q2: Which female Australian cricketer carried her team home against India in the recent T20Is?

- a. Tahlia McGrath
- b. Meg Lanning
- c. Darcie Brown
- d. Alyssa Healy

Q3: Who was the first international player to use a Kookaburra released carbon fibre-reinforced polymer support bat?

- a. Virat Kohli
- b. Kapil Dev
- c. Chris Gayle
- d. Ricky Ponting

Q4: What was the lowest ever total in an IPL game?

- a. 56 b. 49 c. 64 d. 40

Q5: Who is at the top of the Group A table in the World Cup Qualifiers?

- a. Ireland b. Serbia c. Portugal d. Azerbaijan

Q6: How many international centuries does Virat Kohli have?

- a. 45 b. 70 c. 66 d. 34



Virat Kohli

Photo: AFP

Q7: When was the first UCI Mountain Bike World Cup held?

- a. 1999
- b. 1996
- c. 1989
- d. 1985

Q8: What is the normal time difference between which both the Summer Olympics and Winter Olympics are held?

- a. 1 Year
- b. 2 Years
- c. 3 Years
- d. 4 Years

Q9: In which year, the first Winter Olympic Games was held?

- a. 1924
- b. 1920
- c. 1928
- d. 1932

Q10: In which country were the first Paralympic Games held?

- a. France
- b. Finland
- c. United Kingdom
- d. Russia

ANSWERS: 1. d. Football Team
2. a. Tahlia McGrath 3. d. Ricky Ponting
4. b. 49 5. c. Portugal 6. b. 70
7. c. 1989 8. b. 2 Years 9. a. 1920
10. c. United Kingdom