



THE TIMES OF INDIA

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TODAY'S EDITION

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STUDENT EDITION

FRIDAY, OCTOBER 9, 2020



WEB EDITION

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PM for a day!

Finnish Prime Minister Sanna Marin had a quieter than usual day on Wednesday after she handed her power to a 16-year-old girl as a part of a campaign to promote girls' rights in the country. Marin made a teenager the Prime Minister of the country for a day!

Sixteen-year-old **Aava Murto**, an active campaigner on issues relating to climate changes and human rights, spoke to several MPs and ministers on development and foreign trade, as part of her duty as the PM.

'PM for a day' is a part of a global 'Girls Takeover' campaign by children's rights charity, Plan International, which aims at raising awareness on girls' digital skills in technological industries and highlight the problem of online harassment of women.

What action would you take, if you are made the PM for a day?

Share your thoughts at toinie175@gmail.com. Post your comments at toistudent.com

Best entries will be published in Times NIE



PANDEMIC FATIGUE



PM Narendra Modi's 'Jan Andolan for Covid-19 Appropriate Behaviour' campaign endeavours to be a 'low cost, high intensity campaign' with the key messages to 'wear mask, follow physical distancing and maintain hand hygiene'

WHAT: The World Health Organisation has warned the European countries about 'pandemic fatigue', which it says threatens the continent's ability to tackle the coronavirus. According to health experts, pandemic fatigue can occur when people get tired of the pandemic measures, and become less likely to follow the public health practices.

WHY: According to experts, it is common to develop a natural sense of burnout, as we've had to stick

to these public health measures for a prolonged period of time. Though pandemic fatigue can be experienced differently for everyone, often it presents itself

as feeling restless, irritable, lacking motivation, and difficulty concentrating on tasks.

HOW TO OVERCOME IT?

➤ Remember our actions impact a greater number of people than just ourselves and our immediate social circles
➤ Realise that each interaction

can have a ripple effect to spread the virus
➤ Respect the fact that everyone is going to 'return' at their own pace
➤ Choose activities/locations that will make it easy for you to continue to follow public health

guidelines
➤ Try to become more self-aware; recognise possible feelings of pandemic fatigue
➤ Follow self-compassion, it's okay not to be okay
➤ Reach out for support if you become overwhelmed

X-PLAINED
HOW COUNTRIES ARE TACKLING IT?
➤ A local authority in the UK has consulted communities to gauge the feelings of the public
➤ A municipality in Denmark has involved students in drawing up restrictions that allow them to return to university
➤ Turkey has employed social media polls to understand public sentiment
➤ Germany has consulted philosophers, historians, theologians, and behavioural and social scientists

“Citizens have made huge sacrifices over the last eight months to try and contain the coronavirus. In such circumstances, it is natural to feel apathetic and demotivated to experience fatigue”
HANS KLUGE, Europe Director, WHO

(SOURCE: WTPUBLICHEALTH)

Spotlight

AMERICAN POET LOUISE GLUCK WINS 2020 NOBEL LITERATURE PRIZE

THE NOBEL PRIZE FOR LITERATURE has been awarded to American poet Louise Glück “for her unmistakable poetic voice that with austere beauty makes individual existence universal.” Glück has become the first American writer to win the Nobel prize for literature in 27 years. She is the 16th woman to win the Nobel.



NEMONTE NENQUIMO

Nemonte Nenquimo's tenacity to save the ancestral lands in Amazonian jungle region has earned her a spot on Time magazine's list of 100 most influential people in the world in 2020.



Photo: AFP

➤ She lives in the 444,780 acres of virgin jungle belonging to her indigenous Waorani tribe, which she has been fighting to protect from exploitation by oil prospectors
➤ In 2019, she led a legal challenge by the Waorani to prevent oil companies from entering their territory in the eastern Pastaza province
➤ She travelled more than 250 kilometres to capital Quito to protest against the encroachment of their land by the oil companies

VIEWPOINT



MANKADING SHOULD BE RECHRISTENED TO BROWNED: SUNIL GAVASKAR

Former Indian skipper Sunil Gavaskar has insisted that the word 'Mankading' should be removed from cricket's terminology, as it is disrespectful to former all-rounder Vinoo Mankad, and instead should be rechristened as 'Browned'. "If it has to be referred by somebody's name, it should be (named after) the non-striker, Bill Brown, who, despite being warned twice by Mankad ... left (his crease). And, the third time, when Mankad removed the balls, an uproar was created by the media," he said.

➤ The term 'Mankading' was coined by Australian journalists after Vinoo Mankad, who ran Bill Brown out for backing up too far before the ball was bowled, on India's tour of Australia 1947-48

➤ Mankad did not refrain from using it again in the second Test at Sydney Cricket Ground (SCG), after which it garnered more heat

THE CONTEXT

➤ The comments from the former Indian skipper came a fortnight after the Marylebone Cricket Club (MCC) approved changes that will put more onus on the batsman to stay in his ground
➤ The rare act of running out the bowler at the non-striker's end, despite being within the rules, has long been considered unsportsmanlike
➤ The MCC has moved to eradicate such controversy by extending the point at which a bowler can attempt the run out, and also changing the name of the law to "put the onus on the non-striker to remain in his/her ground"

Q Should Mankading be replaced with Browned?

Share your views at toinie175@gmail.com. You can also post your comments at toistudent.com

NEWS IN BRIEF

CLICK HERE FOR MORE

2020 HAD THE WARMEST SEPTEMBER ON RECORD

Last month was the warmest September on record worldwide, topping a record set just a year before, European scientists have said. It was also the hottest September on record for Europe. Northern Siberia, western Australia, the Middle East and parts of South America that similarly recorded above-average temperatures. According to the Copernicus Climate Change Service, last month was 0.63 degrees Celsius warmer than average and topped the average for Sept 2019 by 0.05 degrees Celsius.



Photo: Getty Images

➤ The announcement by the Copernicus Climate Change Service, an inter-governmental agency supported by the European Union, comes after nine months of devastating wildfires, and during the most active Atlantic hurricane

ENVIRONMENT

season since 2005
➤ It also came as Arctic sea ice plunged to its second-lowest levels on record, driven by record temperatures in late June. ➤ Many experts predict that by 2050, Arctic sea ice could melt completely during the summer

Quote unquote

My wish is that my win will provide a positive message to the young girls, who would like to follow the path of science, and to show them that women in science can also have an impact through the research that they are performing

EMMANUELLE CHARPENTIER, 2020 Chemistry Laureate



FACTOID \$10.2 tn

■ The surge of wealth among the billionaires during the coronavirus pandemic, according to a report by Swiss bank, UBS. The billionaires increased their wealth by more than a quarter (27.5%) at the height of the April-July crisis, when millions of people around the world had lost their jobs or struggled to go by government plans, claimed the report. Interestingly, the fortunes of billionaires have grown by \$ 4.2 billion (or 70%) in the last three years

MUKESH AMBANI REMAINS INDIA'S RICHEST MAN FOR 13TH CONSECUTIVE YEAR

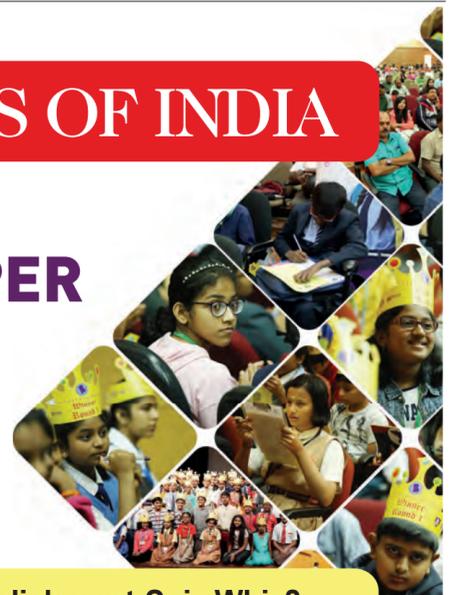
MUKESH AMBANI, THE CHAIRMAN AND MANAGING DIRECTOR OF RELIANCE INDUSTRIES (RIL), ON THURSDAY EMERGED AS INDIA'S WEALTHIEST FOR THE 13TH STRAIGHT YEAR, AS HIS NET WORTH SWELLED TO \$88.7 BILLION (AROUND ₹6.65 LAKH CRORE), WHILE THE WEALTH OF 100 RICHEST ROSE BY 14 PER CENT TO \$517.5 BILLION, DESPITE THE CORONAVIRUS OUTBREAK, ACCORDING TO FORBES



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A MOVING STORY OF NEWTON'S FIRST LAW

OBJECTIVE: TO STATE, EXAMINE AND RELATE NEWTON'S FIRST LAW OF MOTION TO SOME INTERESTING REAL LIFE EXAMPLES

Hema Jayaram, Teacher, Daffodils Foundation for Learning, Bengaluru, explains the theory in simple terms

Look at the world around you. All objects are either visibly moving or resting. Your favourite football lies at rest and moves when kicked, your Lego car moves when pushed, the pushed car or ball stops after some time, cycling needs effort when you start but goes easy as you move, your paper rockets may not move the way you want them to move, a shotput takes a lot of effort to throw, and so on. If you have ever wondered why these objects move or stop, classical mechanics is here to give you answers logically.



Three Laws of Motion



Sir Issac Newton



Galileo Galilei

Almost about 300 years ago, Sir Issac Newton, the renowned English mathematician and physicist, inspired by his Italian predecessor Galileo Galilei, published three laws for the states of motion. He established a relationship between the moving/stationary objects, their tendencies and the forces acting on them. These laws are universally known as Newton's Laws of Motion. Let us methodically state, examine and relate Newton's laws with some interesting real-life examples.

NEWTON'S FIRST LAW: IT'S ALL ABOUT INERTIA

STATEMENT: An object remains in a state of rest or in uniform motion in a straight line unless acted upon by an external unbalanced force. The above law is based on a tendency for a body to remain at rest or in motion. This tendency is called 'inertia'. Inertia has an opposing or resisting effect. In fact, a few physicists metaphorically call it 'laziness'!

The first Law of Motion is also called 'The Law of Inertia', as it ushers in the concept of inertia.

Let us look at some real-life examples. A football at rest, tends to remain at rest unless an external force like a kick acts on it and makes it move. On the other hand, a moving football will continue to move till another player stops it or if it hits the goal post or if there is ground friction.

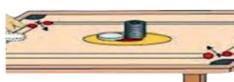
A football remains at rest until it is acted by an external unbalanced force that will accelerate it.



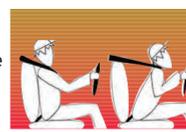
The famous coin trick- the coin will tend to remain at rest because of inertia.



The carrom striker can suspend the stack of coins above while the bottom one is hit!



We move forward when brakes are applied because of inertia. Seat belts are saviours!



Disturbing objects at rest will help us understand Newton's first law practically. It is as simple as that!

OBSERVE THESE TO UNDERSTAND THE CONCEPT OF INERTIA:

1 When your bicycle/scooter/car moves to the right, you lean to the left. Likewise, when you take a left turn you lean to your right.



2 When wet clothes are hung, water particles seem to emerge from them.



TRY THESE ACTIVITIES:

1 Stack your dominos next to each other with uniform gaps between them. What happens when you simply flick the first one?

2 Rotate a globe and touch it lightly, will you observe any change in its motion? Will it try to stop? Try the above simple activities and record your observations in your diaries.

Playing any game and wondering about how objects move brings us closer to mechanics in Physics. Throwing a throwball needs less force than flinging a shotput, kicking a shotput may hurt, while kicking a football will not, a sensible fieldman takes his hand behind to catch a ball to avoid an impact...we save ourselves from getting hurt through our own reflex actions. Newton's theories can justify most of them!

POST SCRIPT: Watch this wonderful video https://www.youtube.com/watch?v=JGO_zDWmkvK.
References: NCERT Science textbook grade 9, Images courtesy: Microsoft Bing search engine.

Quiz

SUBJECT: Physics, class IX
TOPIC: Motion

1 Path Length: Distance :: Shortest distance : ?
Displacement

2 Displacement = 0, but distance „ 0, when,
a. Initial position of the object and final position are both same
b. Object comes back to its initial position after covering a distance
c. Object is stationary
d. Both a and b
Option d- Both a and b

3 Speed will be equal to velocity when:
a. A body moves in a straight line without change in direction
b. A body does not move at all.
c. A body comes back to its starting point
d. None of the above
Option a - A body moves in a straight line without change in direction

4 An athlete swings a disk after he completes three rotations. Choose the options below:
a. The rotations are at variable speed.
b. The rotations are at variable velocity and therefore accelerated.
c. The motion is accelerated because the direction is changing in the circular path.
d. Both b and c
Option d- both b and c

5 If a train is approaching a station, it is
a. gaining speed
b. accelerating
c. slowing down, decelerating
d. not moving
Option c- slowing down, decelerating

Stress Not

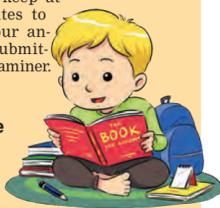
Let go of all the exam stress. Take a deep breath if you feel stressed out. Have proper sleep and try to study in the morning hours.

Health is very important, so make sure you add nutritious food to your diet. Avoid taking any gadgets to your study room to avoid distraction. After every one hour of study, take 5 to 10 minutes break. Prepare flow charts, diagrams of the problems you face while studying and stick it in your study room. Start to revise early and go through previous exam papers.

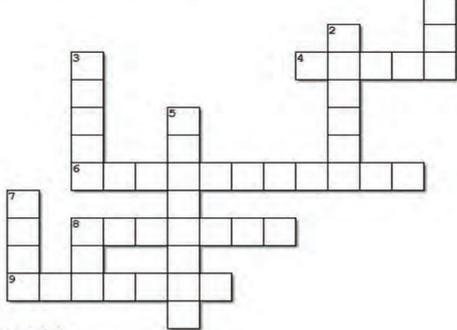


On the day of the exam, read the guidelines provided to you. Do not forget to read the question paper carefully before attempting the questions. Divide the time for each section and make sure you do not miss out the things you know. Try to keep at least 15 minutes to crosscheck your answers before submitting it to the examiner.

Meena Mishra,
Principal, Apple
I EM School,
Visakhapatnam



COMPUTER CROSSWORD PUZZLE



Horizontal

- A peripheral device used to connect one computer to another over a phone line
- A program arranged in rows and columns that manipulates numbers
- A program used to view World Wide Web pages
- A collection of computers that are connected

Vertical

- Unsolicited email messages sent out in bulk and generally commercial in nature.
- A small text file sent to your computer by a web site you have visited.
- A piece of software that can copy itself and which attaches itself to some other program
- Software provided at no cost to the user
- A small picture used to represent a file or program in a GUI interface
- A computer's most basic unit of information

ANSWERS

Vertical 1) spam 2) cookie 3) virus 5) freeware 7) icon 8) bit
Horizontal 4) modem 6) spreadsheet 8) browser 9) network
Nidhi Chaturvedi, teacher, PSBB LLA, Bengaluru

MY SCHOOL PROJECT

AERIAL AFFORESTATION USING DRONES

WHAT IS IT?

- Global warming is a major issue impacting the world today and afforestation appears to be the most prudent solution to counter this.
- Afforestation can be difficult to be conducted manually over large areas and hence we thought the use of drones would be apt in this project.



SALIENT FEATURES

- The key aspect of this project is to use unmanned means such as drones for afforestation.
- In this project, we combined several tasks involved in the process of plantation into one by making seed bombs which are a mixture of soil, organic compost (fertiliser) and clay to act as the perfect carrier for the seeds. Pre-monsoon timing took care of the irrigation aspect.
- A drone is like a flying robot that can be remotely controlled or can fly autonomously through software-controlled flight paths.
- Using GPS, one can control and observe where to drop the seed bombs.



MORE FACTS

- Indian scientists in Bengaluru have already experimented on seed bombing using drones.
- This process not only eliminates labour and covers a wider area faster, but the seed bomb also acts as a shield to protect the seeds (which are inside) from being eaten by rats, birds, etc.

HOW WE WENT ABOUT IT

- We first assembled a drone (nano-drone) by buying its spare parts.
- We then made small seed balls or seed bombs using clay, water, fertiliser and fenugreek seeds which were then dried.
- We attached a special part called a servomotor to the drone to help us drop the seed bombs or seed balls on the barren land via a pipe.
- We put the seed bombs in the drone after which the servomotor (connected to the pipe), tilts the pipe vertically down and drops the seed bombs on the barren land via this pipe.
- This is done just before monsoons so that adequate water is available.
- We observed that the fenugreek plants grew well after two weeks.
- Thus our project that afforestation can be unmanned was successful.

Sumukh Satish Prabhu,
Class VIII, C N M School,
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BRUSH UP YOUR ENGLISH!

MIDDLE CLASS & ABOVE CAN WRESTLE THEIR MINDS

Find the errors in use of **adjectives/determiners**, and justify your answer :

- Kolkata is further from Alwar than Jaipur, the capital of Rajasthan.
- Ramesh is smarter enough to get selected for this post, without any recommendation.
- This shirt is comparatively better than that we saw in the corner shop yesterday.
- She does not have some money to buy a new refrigerator, so she is worried.
- Whole the chapter of this book is full of errors.
- It is well known that Mrs Indira Gandhi was the first statesman of her time.
- A lots of books on English grammar are available with me but this one is the best.

- Nowadays the weather is getting more cold and colder.

ANSWER

- Change 'further' to 'farther'. Comparative degree of 'far'
- Use positive degree before enough. 'Smarter' not 'smarter'
- 'Better' is already comparative. So do not use 'comparatively'
- 'Any money' instead of 'some money', because it's a negative sentence
- 'The whole' instead of 'whole the'
- Use 'foremost' instead of 'first'
- Use either 'lots of' or 'a lot of'
- Do not use 'more cold'. Use 'colder and colder' instead

Subhashish Bhaumik, HOD English Department, Doon Heritage School, Dehradun