

Rainbow Public School, Mysuru.

Newsletter

Issue : March 2020

Pandemics: Covid-19

A pandemic is the global outbreak of a disease. There are many examples in history, the most recent being the COVID-19 pandemic, declared as such by the World Health Organization on March 12, 2020.

Pandemics are generally classified as epidemics first, which is the rapid spread of a disease across a particular region or regions. Coronaviruses are a type of virus. There are many different kinds, and some cause disease.

A newly identified type has caused a recent outbreak of respiratory illness now called COVID-19. Coronaviruses are named for their appearance: Under the microscope, the viruses look like they are covered with pointed structures that surround them like a corona, or crown.

The new coronavirus disease, called COVID-19, has appeared and spread extremely quickly, making its way to over 100 countries since its December 2019 discovery in China. This particular type of respiratory disease is caused by a virus called SARS-CoV-2. It's part of a larger family of coronaviruses, the majority of which cause only the common cold.

EPIDEMIC

An epidemic is the occurrence in a community or region, of cases of an illness, specific health-related behaviour, or other health-related events, clearly in excess of normal expectancy. The community or region and the period in which the cases occur are specified precisely.

PANDEMIC

A pandemic is the worldwide spread of a new disease. The declaration of a pandemic is a reference to its spread, rather than its severity. With 118,000 cases of Covid-19 having been detected across 110 countries, the WHO on March 11 declared it to be a pandemic.

Source: WHO

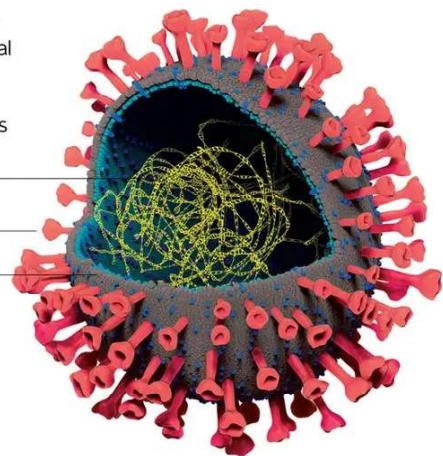
Anatomy of a virus

The covid-19 virus has several features we may be able to target with drugs to break it down and stop it entering cells

RNA enclosed in protein

Spike protein

Lipid membranes



Notable Pandemics in History

In addition to HIV, which has killed over 39 million people since 1982, there have been other equally devastating pandemics in history:

- The Plague of Justinian of 541 A.D. bubonic plague and wiped out 25-50 million people in one year.
- The Black plague killed more than 75 million people from 1347 to 1351
- The Spanish flu pandemic of 1918 killed well over 50 million people in one year.
- The smallpox pandemic of the 20th century claimed between 300 to 500 million lives.
- The ongoing tuberculosis pandemic continues to kill over 1.5 million people annually.

Protect yourself and others around you by knowing the facts and taking appropriate precautions. Follow advice provided by your local public health agency.

Significance

March 3rd , World Wild Life Day

2020 Theme : Sustaining all life on Earth

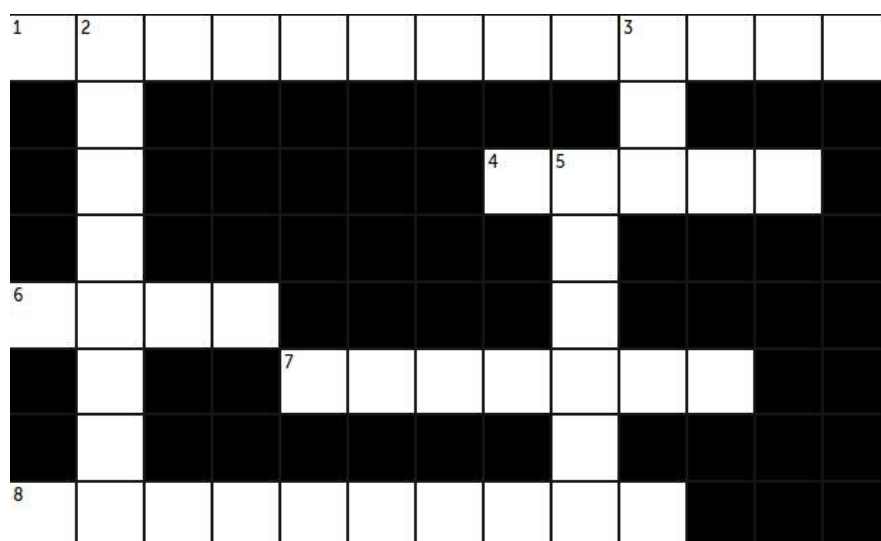


On this March 3rd ,world wild life day , You can help raise awareness of wildlife and promote conservation and sustainable use!

Get to know the animal and plant species under threat where you live, in your area or in the country, and find out more on the threats and challenges they and their habitats face, and what can be done to conserve them.

Share this knowledge with your family and friends. Young people are the future leaders of wildlife conservation. A thriving planet and a rich biodiversity are your birthright, and you deserve a future where humans live in harmony with the wildlife .

Funny Times



Answers for last month's crossword

Across :

- 5) FlorenceNightingale
- 6) Eight 7) Britain
- 8) Robinhood

Down :

- 1) Three 2) Spider
- 3) VaticanCity 4) Water

Across

Below

1. This scientist introduced the idea of natural selection .
2. This is the first element on the periodic table .
4. This country is the world's largest producer of bananas.
3. The typical colour of gemstone ruby .
6. Another name for maize.
5. Iron is one of the two main metals in the earth's core,which is the other?
7. In this sport the term 'Wide' is used.
8. This spinner took all the 10 wickets in an innings of a cricket Test match.