

PANGAEA

A Discipline Of All Disciplines...

K.C.COLLEGE

DEPT OF LIFE SCIENCES

UNDER STAR DBT SCHEME

DEPARTMENTAL NEWSLETTER

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GREEN REVOLUTION IN ANTARCTICA

Recent pictures of Antarctica show the snow turning green. As baffling as that is, it is because of the melting snow that allows single-celled organisms, algae to thrive perfectly well.



Source- newshead.in

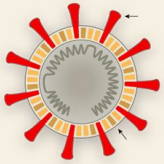
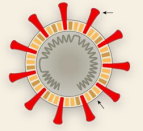
Large scale mapping of the same, shows 1,679 different types of algae covering an expanse of 1.9 km². Scientists speculate the beginning of a new ecosystem. As global warming increases, the blooms are expected to expand. It plays a key role in carbon sink, but also absorbs more heat from the sun.

INSIDE THE ISSUE

COVID-19

FOREST FIRES & MORE....

Covid-19 – Beyond the Eyes



Mid November 2019 recorded its first case of a severe acute respiratory syndrome, Coronavirus 2 also called SARS-CoV-2. Since then the world did not remain the same. Tireless efforts have been made to design an effective vaccine for the same. Everything came to stand still with the worldwide lockdown, but it did have many positive outcomes. Since the implementation of lockdown, there was 17% drop in Global Carbon Emissions. With the shutdown of industries and drop in the usage of transportation, the air is now cleaner and quieter. One can almost say, ‘Amidst a disease, Mother earth is healing herself’.



Source: BBC

Gone with the wind- Locust attacks 2020



After nearly 26 years, a member of the grasshopper family, the locusts have shown their strengths in number. These excellent flyers are mostly solitary though swarm in millions occasionally to satiate their hunger. This gregarious desert pest, first attacked Rajasthan followed by neighbouring Northern states of Punjab and then spread to Gujarat, Maharashtra and Madhya Pradesh. Large scale operations are being carried out to spray insecticides. However they pose severe threats to standing crop and can leave massive dents in the lives of farmers and economies of States. High probability of such locust attacks are presumably due to global warming.

Source: Swarajyamag



Trails ablaze, Uttarakhand

Uttarakhand, the land of snowclad mountains was a victim of a potential environment tragedy, the forest fires. Many hectares of forest have been gutted by the heat-wave in North India, which was the trigger. Hot gushes of winds dried up water sources, pushing animals on the brink of survival. Fortunately, department officials from IFS stated that the situation was under control and the fires weren't raging uncontrollably.


Source: Timesnow News

Black Fires of Australia

From mid-2019 to early 2020, Australia experienced bushfire season, a.k.a 'Black Summer'.

Major bushfires first unleashed in July 2019 followed by more massive ones in September. The fires blazed continually for 5 months, destroying millions of hectares of land and billions of animals while few driven to extinction. Though loss of human life was recorded to a minimum, the loss of biodiversity was devastatingly massive. Air quality fell below dangerous levels and by the beginning of 2020 smoke engulfed parts of South Pacific Ocean stretching up to South America. The massive blaze finally extinguished on March 31, 2020. Although the cause is unknown, climate change is conjectured to be the contributing factor. The country recorded its hottest day at 41.3°C.

Source: BBC, The verge



Otters possess
the thickest
layer of fur

Appendix may not
be vestigial, it may
be a safe house for
gut bacteria

79th human
organ called
Mesentery
discovered

Earth
undergoes
pole reversal
every few
thousand
years

PUZZLING!

Our moon
experiences
'moonquakes'

Phosphorus isn't an
earthly element, it
is found to be
material in comets

Core of our Earth is
radioactive because
of antineutrinos

Source: Livescience,
Bestlife,
Popularmechanics

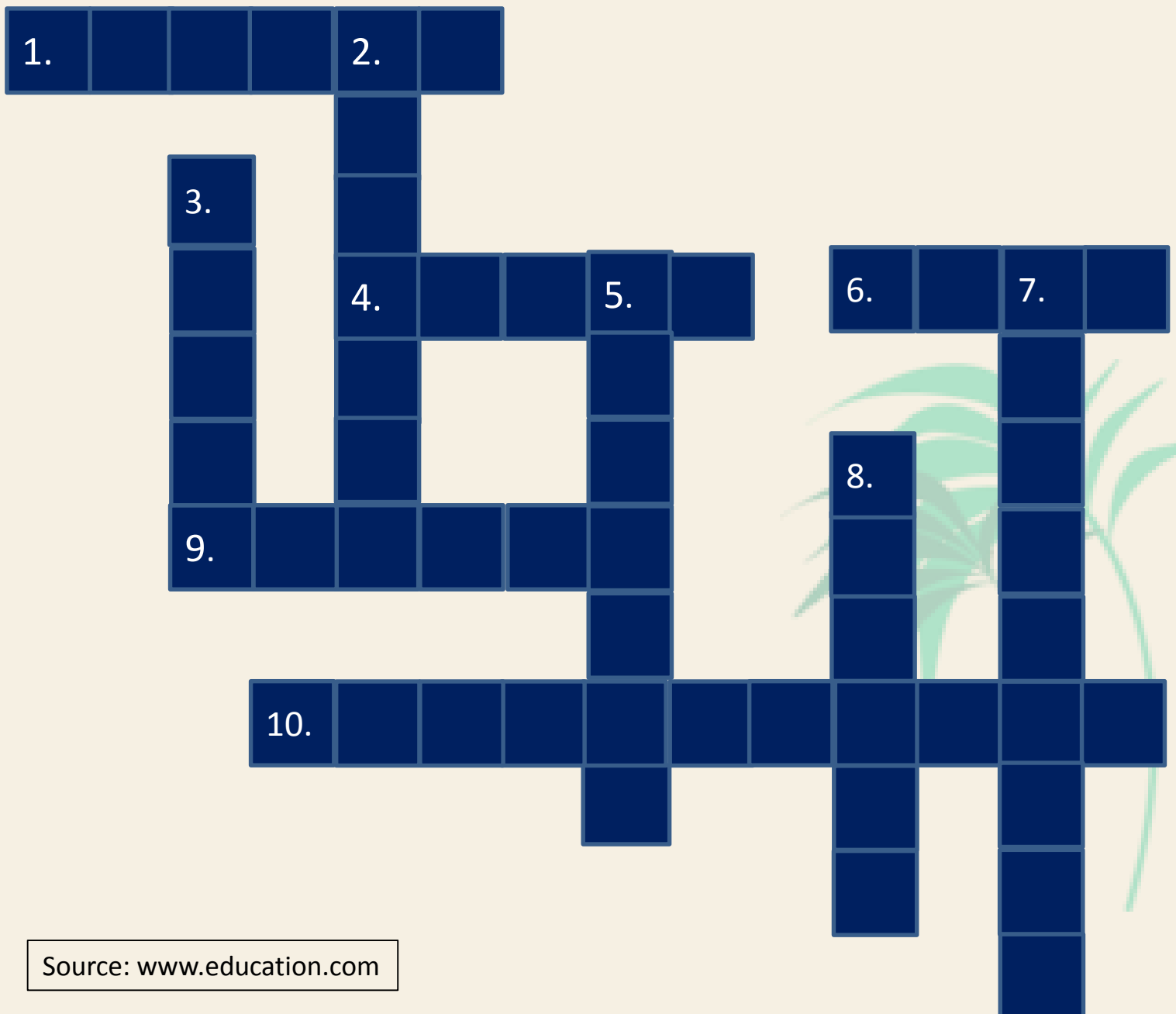
AT CROSSROADS

Across

1. Attaches bone to muscle
4. Tissues that work together
6. Structural and functional unit of living beings
9. Cells that work together to perform specific functions
10. Smallest blood vessel

Down

2. Movement of water and solutes across cell membrane
3. Where bones meet
5. Tiny air sacs in lungs
7. Attach bone to bone
8. Specialized cells of nervous system



DEPARTMENTAL EVENTS

2019-20

- Workshop on Foldscope (6th July '19)
- Bidding adieu to Dr. Archana Thite (30th September '19)



- Departmental Calendar Release (20th December '19)



- SCI- CODE 2019 (21st December '19)
- Workshop on bird nest building (10th January '20)



- 103* Not Out – Workshop on Geriatric Management (5th February '20)
- 3 Day Webinar on Combating Infertility (26th to 28th May '20)
- Beyond the Syllabus Webinars (Faculty and Students)



LIFE after LIFE SCIENCES

PROSPECTIVE AVENUES

- Agriculture Sector
 - Chemical Industry
 - Beverage Industry
 - Epidemiology
 - Biochemistry
 - Immunology
 - Research Scientist
 - Health Sector
 - Environment Protection Agencies
 - Farm Houses
 - Medicine and Pharmaceutical Industries
 - Agronomy
 - University & School Science Teacher
 - Food Processing Industry
 - Animal Care
 - Bioinformatics
 - Laboratories and Chemical Industries
 - Disease Control
 - Ecological Modelling
 - Molecular Biology
 - Pollution Control
 - Food Processing Industry
 - Animal Care Centre
 - Biomedicine
 - Pathology
 - Nutrition industry
 - Food Sciences
 - Horticulture industry
 - Biophysics
 - Biomedical Engineering
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