

ZOOLOGICA



NEWSLETTER FROM THE DEPARTMENT OF ZOOLOGY, QUEEN MARY'S COLLEGE

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VERMICOMPOSTING TECHNIQUE – ECOFRIENDLY METHOD OF SOLID WASTE MANAGEMENT IN THE ZOOLOGY DEPARTMENT OF QMC

S.Sukanya Research Scholar

The Department of Zoology has initiated the practice of separating biodegradable waste from non-biodegradable one in the college campus. The biodegradable wastes are dumped in the pits and land filled and a part of it is composted. It is laudable that proper waste management including composting initiatives has been adopted by the research scholars of Zoology department. The organic wastes filled in the pits are subjected to Vermicomposting which forms a best practice in the campus. In addition to the organic waste generated from different units, large sources of organic wastes other than kitchen wastes (canteen, hostel) like leave litter, terrestrial weeds etc that are generated from

maintain and cleaning the campus are collected and dumped in pits.

Vermicomposting is the technology where with the use of locally available appropriate species of composting earthworms, huge amount of plant biomass produced in the campus is reduced into available plant nutrient rich organic manure within a short time span. Following collection of wastes from in and around the Campus, the waste resources are dumped near the vermicomposting unit (adjacent to Zoology Department). The organic wastes to be processed by earthworms are chemically analysed to know their nutrient values. All the different types of wastes are mixed thoroughly and pre-

composted for 2-3 weeks. After pre-composting pre-composted substrates are loaded in the cemented vermicomposting pits. Locally available earthworms are then introduced in the composting pits. Following inoculation, the earthworms through their feeding, burrowing and casting activities convert the organic wastes into manure called vermicompost within 45 days. Vermicompost generated in the composting unit is used as natural fertilizers and pesticides for the plants in the campus. The Vermiwash prepared by the students of Zoology department is used in Hydroponics.



THE CANCER AWARENESS BUS FROM ADYAR CANCER INSTITUTE STOPS BY QMC

The Cancer awareness Bus from the Cancer Institute, Adyar, Chennai was stationed at the College campus on 05/04/22. The exhibits in the bus created awareness about cancer and dispelled common myths. The awareness program started with a lecture by the social workers of the Cancer Institute. The

programme was very beneficial to students and about 1500 students actively took part in the program by raising various questions regarding the causes and prevention of cancer. The event was coordinated by the Department of Zoology.

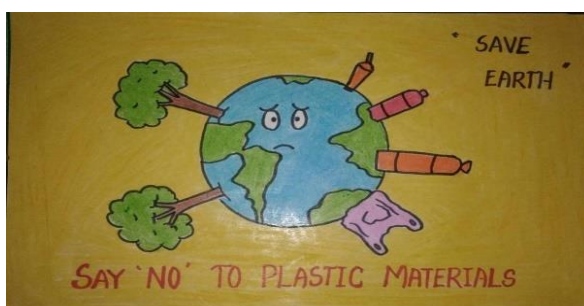


PHOTOCAPTURE OF A RARE ORGANISM



Vitreledonella richardi, also known as the **glass octopus**, is an incirrate, transparent, gelatinous, and almost colourless, mesopelagic to bathypelagic octopod found worldwide in tropical and subtropical seas with a mantle length up to 11 cm (4.3 in) and a total length up to 45 cm (18 in) in adults. A rare photograph of the glass octopus is captured by researchers of The Schmidt Ocean Institute during the 34 days expedition to Phoenix islands Archipelago. It is entirely covered by a speckled iridescent membrane. Only its nerve, eyes and digestive tract are visible to humans.

IT'S ALL ART



CONNEXONS



Answers: Covid-19, nutrient, Arthropoda,

cell division, Bacteria

CHIMERA 2K22 organised by PG department of zoology GURU NANAK COLLEGE on 07/04/22

VEGETABLE CARVING [I PRIZE]

RAMYA.T [II M.SC]

JAYALAKSHMI.G [II M.SC]

DOODLING [I PRIZE]

JUMANJI THE HUNT



BEST PAPER PRESENTATIONS

1. IN THE INTERNATIONAL CONFERENCE ON APPLIED BIOLOGY FOR SUSTAINABLE DEVELOPMENT organised by SRI PARASAKTHI COLLEGE FOR WOMEN on 21/03/22 & 22/03/22

Title of the paper ; Avifauna of Muttukadu backwater, India with special reference to water and Shore birds.

Presenter ; Ramya shree. N [ph.d]

2. IN THE NATIONAL SEMINAR ON RECENT TRENDS IN ENVIRONMENTAL AND MICROBIAL BIOTECHNOLOGY [RTEMB – 2022] organised by department of biotechnology & Microbiology of PADMAVATI ARTS & SCIENCE COLLEGE FOR WOMEN on 18/04/22

Title of the paper ; Isolation and optimization of dye degrading bacteria from textile industry effluent

Presenter ; Kavitha.D [ph.d]

INDHUMATHI. [III B.SC]

ROWTHIRAM PAZHAGU an intercollegiate competition organised by Tamil Nadu police department and Stella Maris college on 19/04/22]

ESSAY WRITING [III Prize]

Anitha. S [II B.SC]

ZOOLOGICA –Editorial Team

Anjali.T.S. Ramya. T Subashini. D

Yuvabharathy.D

CONSTRUCTION OF ECO-POND IN QMC



A productive and prospective effort is being carried out in QUEEN MARY'S COLLEGE through the construction of eco-pond in the campus. An Eco-pond is a lentic fresh water body that is used to increase the aesthetic quality of a place. Eco-ponds are also good for our health. Installing an eco-pond has various environmental benefits. It increases humidity, serves as an ecosystem for many species of plants and animals while also attracting many species of water birds. Since our college is one of the best natural habitat of many wild animal species this pond may also aid them in quenching their thirst. Also primary production is increased and the environmental degradation is prevented.

IDENTIFY THE BIRD

