

Teachers Day Celebration on 05-09-2018

Notice

Department of Chemistry
Rabindra Mahavidyalaya
Champadanga, Hooghly

Date: 01/09/2018

Notice

It is hereby informed that the Teachers' Day will be held on 5th of September 2018 at the Department of Chemistry. All the Students and Teachers of Department of Chemistry are instructed to participate in the event on that day.

Venue	Department of Chemistry
Time	10.30 a.m. -4.00 p.m

Sucheta Joy 05/09/2018

Dr. Sucheta Joy

(HOD)


Principal
Rabindra Mahavidyalaya
Champadanga, Hooghly (WB)

Dr. Prasanta Bhattacharyya

(Principal)

Report

To acknowledge the contribution of teachers, the students of department of chemistry prepared a special assembly on September 5. They shared an invigorating “thought of the day” and paid their homage to former Indian president Dr Sarvepalli Radhakrishnan, on whose birthday Teacher’s Day is celebrated. The assembly commenced with a harmonious chorus song by students. Department of Chemistry of Rabindra Mahavidyalaya organized Quiz competition and Cultural program to commemorate birth anniversary of **Dr. Sarvepalli Radhakrishnan** on 5th September, 2018. Teachers’ day celebration program hosted by sem-III Hons. students at Dept. Of Chemistry. They began with the introductory speech given by respected Principal Dr. Prasanta Bhattacharyya of the institution. The students performed various cultural activities like dance, song, recitation etc. A student of sem III also delivered a beautiful speech, reflecting on the value of teachers in their life. All the teachers, along with the principal, appreciated the performances of the students. 5 teachers (including Principal Sir) were present in the seminar. Total 31 students including 22 male student and 9 female students and 2 non-teaching staffs were present. The seminar ended with vote of thanks by Dr. Rabiul Alam.

Programme Schedule

Theme: To commemorate the birth anniversary of **Dr. Sarvepalli Radhakrishnan**- Teacher's Day celebration

Venue: Dept. Of Chemistry, Rabindra Mahavidyalaya

Date: 5th September, 2018

Time: 10:30 a.m. – 4.00 p.m.

Inauguration: Dr. Rabiul Alam, HOD of Department of Chemistry

Inauguration Speech: Dr. Prasanta Bhattacharyya, Principal

Technical Session: Cultural program

Conducted by: Dr. Rabiul Alam (Assistant Professor, Rabindra Mahavidyalaya), Dr. Sucheta Joy (Assistant Professor, Rabindra Mahavidyalaya)

Vote of Thanks: Dr. Rabiul Alam, (Assistant Professor, Rabindra Mahavidyalaya)

Departmental Quiz Contest Program on 25-04-2019

Notice

DEPARTMENT OF CHEMISTRY

RABINDRA MAHAVIDYALAYA, CHAMPADANGA, HOOGHLY


Dated: 19/04/2019

NOTICE

It is hereby informed that the Departmental Wall Magazine "CHEM MANIA" will be published on 25/04/2019 at the Department of Chemistry. A departmental quiz competition will be organized by the students and teachers on that day. All the students and teachers of the Department of Chemistry are instructed to participate in the event on that day.

Venue	The Department of Chemistry
Time	11:30 a.m. to 01:00 p.m.

Rabiul Alam
Dr. Rabiul Alam
(HOD, Chemistry)
19/04/2019


Principal
Rabindra Mahavidyalaya
Champadanga, Hooghly (WZ)
Dr. Prasanta Bhattacharyya
Principal)

Report

The goal of the event Quiz competitions is always interesting and informative, which keeps the students interested. The primary goal of this event is to educate them on current general knowledge in Science and Technology, Current Affairs, Sports, Business, and Entertainment. The quiz contest programme commenced at 11:30 AM and concluded at 3:30 PM, conducted by Mr. Tanmoy Pandit and Mrs. Subhra Dholey, the event was graced by Principal, Dr. Prasanta Bhattacharyya, Rabindra Mahavidyalaya, along with the HOD of the chemistry department Dr. Rabiul Alam. Faculty members and all students from the department attended the event with all their hearts. The quiz was divided into two rounds. The students showcased their brilliance by rapidly answering the questions. Though some of the questions were very tricky, the teams tried to answer them with confidence. All the teachers, along with the principal, appreciated the performances of the students. The quiz session was very interactive where students have been quite enthusiastic. 5 teachers (including Principal Sir) were present in the seminar. Total 31 students including 22 male student and 9 female students and 2 non-teaching staffs were present. The seminar ended with vote of thanks by Dr. Rabiul Alam.

Programme Schedule

Objective: Quiz competitions are always interesting and informative, which provide excitement among the students. The main objective of this event to make them aware of recent general knowledge related to science and technology.

Outcome of the Event: It was very informative and knowledge enriching competition for the participants. This competition gave better experience to the participants.

Venue: Dept. Of Chemistry, Rabindra Mahavidyalaya

Date: 25th April, 2019

Time: 11:30 a.m. – 3.30 p.m.

Inauguration: Dr. Rabiul Alam, HOD of Department of Chemistry

Inaugural Speech: Dr. Prasanta Bhattacharyya, Principal

Conducted by: Mr. Tanmoy Pandit and Mrs. Subhra Dholey Dr. Rabiul Alam (SACT, Rabindra Mahavidyalaya), Dr. Sucheta Joy (SACT, Rabindra Mahavidyalaya)

Vote of Thanks: Dr. Rabiul Alam (Assistant Professor, Rabindra Mahavidyalaya), Dr. Sucheta Joy (Assistant Professor, Rabindra Mahavidyalaya),

Question-Samples of Quiz Competition

প্রঃ ডুবোজাহাজে পেরিস্কোপ কি কাজে লাগে ?

প্রঃ প্রেসার কুকারে রান্না তারাতারি হয় কেন ?

প্রঃ চা তড়াতাড়ি ঠান্ডা হয় কোন রং এর কাপে ?

প্রঃ বৈদ্যুতিক শক্তির হিসাব কিসে করা হয় ?

Q. শামুক কত দিন ঘুমায় ?

Q. ভিটামিন কে আবিষ্কার করেন ?

Q. পশ্চিম বাংলায় প্রথম ট্রেন চলেছিল কবে ?

Q. কোন জেলা থেকে হুগলী জেলার জন্ম হয় ?

Which of these adaptations is not shown by a camel for living in deserts?

- | | |
|--------------------------------|---|
| (a) It has a hump on its back. | (b) It passes scanty of urine. |
| (c) It perspires a lot. | (d) The sole of feet have sort of pads. |

The stem of a cactus plant is fleshy and swollen to

- | | |
|----------------------------|-------------------|
| (a) perform photosynthesis | (b) retain water |
| (c) release water | (d) none of these |

A kite flying in the sky has motion of the type

- | | |
|-----------------|--------------|
| (a) Linear | (b) Random |
| (c) Curvilinear | (d) Periodic |

Result of Quiz Competition

Name of the round	Team 1	Team 2
1	10	13
2	8	10
Grand Total	18	23
		WINNER

Each question carries 2 marks

Bonus question carries 1 marks

Sucheta Joy 25/04/2019

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Quiz Master

Rabind Alam 25/04/2019

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HOD

Some Photos of Departmental Quiz Competition & Wall Magazine, 25th April, 2019



Seminar on Liquid Crystal Display

Notice

DEPARTMENT OF CHEMISTRY

RABINDRA MAHAVIDYALAYA, CHAMPADANGA, HOOGHLY


Dated: 15/02/2019

NOTICE

It is hereby informed that a Departmental Seminar entitled “Liquid Crystal Display” will be organized by the students and teachers of the Department of Chemistry on 20/02/2019 at room no 6 from 11:30 a.m. to 01:30 p.m. All the students and teachers of the Department of Chemistry are instructed to participate in the Seminar on that day.

Venue	Room no 06
Time	11:30 a.m. to 01:30 p.m.
Speaker	Dr. Sucheta Joy

Rabiul Alam
15/02/2019
Dr. Rabiul Alam
(HOD, Chemistry)


Principal
Rabindra Mahavidyalaya
Champdanga, Hooghly (WB)
Dr. Prasanta Bhattacharyya
Principal)

Programme Schedule:

Theme: Seminar on Liquid Crystal Display

Venue: Department of Chemistry

Date: 20-02-2019

Organizer: Department of Chemistry

Speaker: Dr. Sucheta Joy (Departmental Faculty)

Audience: Students of Semester I, III and V (Hons.)

Objectives:

- To make aware of current student about Liquid Crystal Display
- To know about basic concepts of LCD which is Liquid Crystal Display. LCD is a flat-panel display system that is primarily seen in Television and computer screens, which is also used by cell phones presently. Such LCDs are entirely different from the previous CRT displays and it utilizes liquid crystals as their primary mode of operation rather than cathode rays.
- To understand that Liquid crystals are a state of matter that sits between liquids and solids. They flow like a liquid, while the molecules within them maintain some order relative to each other, like in a crystal. The long and thin molecules pack against one another in an ordered rectangular arrangement of rows.

Report

Department of Chemistry of Rabindra Mahavidyalaya organized a seminar on basic concept of Liquid crystal display on 20.02.2019. The seminar was focused on the concept of light-modulating properties of liquid crystals. The seminar, hosted by Dr. Rabiul Alam (faculty and head of Department of Chemistry), began with the inaugural talk given by respected Principal Dr. Prasanta Bhattacharyya. The lecture was presented by speaker Dr. Sucheta Joy (Departmental Faculty). The session was very interactive where students have been quite enthusiastic, and all of their queries have been satisfactorily answered. 5 teachers (including Principal Sir, IQAC coordinator) were present in the seminar. Total 31 students including 22 male student and 9 female students and 2 non-teaching staffs were present. The seminar ended with vote of thanks by Dr. Rabiul Alam.

Some Photos of Seminar



Some Photos of Seminar topics

Liquid Crystal Display
Dr. Sucheta Joy
 Rabindra Mahavidyala
 Champadanga, Hooghly

**LIQUID CRYSTAL
DISPLAY (LCD)**



WHAT IS LCD???


- A liquid crystal display (LCD) is a flat-panel used for electronically displaying information such as text, images, and moving pictures.
- It is an electrically induced optical device made up of any number of plates of liquid crystals and driven by light of a light source (backlight) or reflector to produce images in color or monochrome.
- Its uses include computer monitors, televisions, instrument panels, and devices ranging from aircraft cockpit displays, to every-day consumer devices such as clocks, calculators, and digital cameras.

States of matter

- Solid
- Liquid
- Gas
- Plasma

Liquid

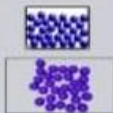
- Liquids have the shape, the volume, density and high surface energy.
- Liquids exhibit high compressibility, the atoms and molecules are held together.



Liquid


Structure of liquid molecules

- Intermolecular forces between the molecules in liquid are comparable to the solid but are not as rigid as in solids.
- The molecules of liquid are more mobile than in solids but are not as mobile as in gases.



What is a liquid crystal?
 What is so special about liquid crystals?


A liquid crystal is a phase between solid and liquid states of matter.



A Brief History of Liquid Crystal


Liquid crystals were discovered by Reinitzer and Lehmann in 1880. The discovery of liquid crystals was made by Reinitzer in 1880. The crystal of this material melted at 133.5 °C into a cloudy fluid, which upon further heating at 178.5 °C became clear.

Cholesteryl Benzoate $\xrightarrow{133.5\text{ }^{\circ}\text{C}}$ **Liquid** $\xrightarrow{178.5\text{ }^{\circ}\text{C}}$ **Crystal**



History

In 1878, the discovery of the first thermotropic and calamitic liquid crystal was made by Reinitzer. The material was found to be a liquid crystal.



Reinitzer

A Multi-disciplinary Area Of Research

