



Serampore Girls' College
University of Calcutta

Departmental report

Department of Botany

Session: 2021-2022

Serampore Girls' College

Department of Botany

Session - 2021-22

(Offline- Online blended mode)

1. No of Students in the department:

Year	1 st Year		2 nd Year		3 rd Year	
Semester	1 st Sem	2 nd Sem	3 rd Sem	4 th Sem	5 th Sem	6 th Sem
No. of Students	18	15	07	07	12	12

No. of total students: 37

2. No. of Teachers

Full Time	SACT – I	SACT – II	Contractual teacher on college pay	TOTAL
NIL	NIL	NIL	01	01

3. Student- Teacher ratio: 37: 01

4. Class Routine of the department for the academic session 2020-2021 with noting no. of classes for every teacher per week

Routine –Science (ODD semester)-2021

Day	Sem	9:45-10:45	10:45-11:45	11:45-12:45	12:45-01:45	02:00-03:00	02:00-03:00
MONDAY	I	BOTG-CC1 (MH)					
	III		BOTG-CC3 (MH)				
	V			BOTG-DSE-A (MH) ICT			
TUESDAY	I	BOTG-CC1 (MH) ICT					
	III		BOTG-CC3 (MH)				
	V				BOTG-DSE-A (MH)		
THURSDAY	I	BOTG-CC1 (MH)					
	III		BOTG-CC3 (MH)				
	V			BOTG-DSE-A (MH)			
FRIDAY	I	BOTG-CC1 (MH) T					
	III		BOTG-CC3 (MH) ICT				
	V			BOTG-DSE-A (MH)			
SATURDAY	I						
	III						
	V					BOTG-SEC-A (MH)	BOTG-SEC-A (MH)

Routine –Science (EVEN semester)-2021-22

Day	SEM	9:45-10:45	10:45-11:45	11:45-12:45	12:45-1:45	2:00-3:00	3:00-4:00
Monday	II						
	IV						
	VI						
Tuesday	II				BOTG(M.H)(ICT)NB-19		
	IV		BOTG – CC4 (M.H) NB-19	BOTG – CC4 (M.H) NB-19			
	VI	BOTG-DSE (M.H) NB-16					
Wednesday	II			BOTG-CC2 (M.H) NB-19			
	IV		BOTG –CC4 (M.H) NB-19				
	VI	BOTG –DSE M.H) NB-16					
Thursday	II				BOTG (M.H) CC2	BOTG(M.H) CC2	
	IV	BOTG- SEC (M.H) NB-16	BOTG- SEC (M.H) NB-16				
	VI						
Friday	II						
	IV			BOTG- (M.H) NB-19			
	VI	BOTG- DSE (M.H) LAB	BOTG- DSE (M.H) LAB				

➤ **Number of classes taken by teacher per week (each class 1 hour):**

MH- 14 (Odd Semester)

MH- 14 (Even Semester)

5. Report of open house/ quiz/ faculty exchange/ Extension lecture/ department's wall magazine? mentoring etc.

Department of Botany in collaboration with Department of Chemistry and Zoology organize open house program, quiz competition and an inter-departmental faculty exchange program (within bioscience).

- a. An Open house discussion program was organized on 14. 12. 2021 for the students of semester I. They are allowed to discuss their queries and requirements for betterment of laboratory, teaching-learning process, their ideas and also their socio-economic status. On the basis of discussion, a report was prepared (attached below)
- b. A quiz competition was organized to evaluate the knowledge of the students within academics as well as encourage them to look beyond their textual knowledge. Students of bio-science, 1st and 3rd semester participated in the competition held on 17. 12. 2021. We invite 3 of our faculty members for Pure science department to evaluate and judge our participants. On the basis of result declared by our eminent judges a report was prepared (attached below).
- c. An inter-departmental faculty exchange program was organized in collaboration with department of Zoology. Dr. Ananya Ali of Department of Zoology, Serampore Girls' College was invited to deliver a lecture (Report attached below).

6. Continuous Internal Assessment (class test, tutorial taken by the teacher):

In CBCS, Continuous Internal Assessment, Tutorial Classes (Class tests) are very important part of the entire system. All examinations were taken in online mode. Not only the assessment is taken, based on assessment result special remedial classes has been arranged by the department. Some question paper and marks statements are attached below as supporting Documents.
(Documents attached below)

Semester I- 4 class tests. 08/11/2021, 08/12/2021 (offline), 13/01/2022 and 31/01/2022 and 2 Continuous internal assessments.

Semester-II- 2 class tests & 2 Continuous internal assessment.

Semester III- 3 class tests 1/10/2021, 09/11/2021 and 21/12/2021 (offline).

Semester IV- 4 class tests 24/02/2022, 03/03/2022 08/03/2022, 07/04/2022 and 4 Continuous internal assessment.

Semester V- 1 assignment (29/10/2021), 2 class test- 21/12/2021 and 24/12/2021 (both offline)

Semester VI- 4 Class tests 25/ 02/2021, 03/03/ 2022, 08/03/2022, 08/ 04/2022 and 2 Continuous internal assessment.

7. Result of final university examination: NA

8. Teachers' Profile for the academic session: One new research article was published.

- Bhattacharya S, **Halder M**, Sarkar A, Pal P, Das A, Kundu S, Mandal DP, Bhattacharjee S. Investigating In Vitro and In Vivo Anti-Tumor Activity of *Curvularia*-Based Platinum Nanoparticles. Journal of environmental pathology, toxicology and oncology. DOI: 10.1615/JEnvironPatholToxicolOncol.2022039940. (IF=3.565).

9. Seminar/ workshop on the subject organized by the department: An exhibition and seminar were conducted in collaboration with Department of Geography on the occasion of Earth Day on 22nd April 2022.

Students of all 3 semesters were participated with their model on the theme “**Restore Earth**” We invited 2 eminent speakers and 3 judges for judgement of the exhibition models (Report attached below).

10. Discipline related co-curricular activities:

- ✚ **Parent Teacher Meeting:** We have organized a virtual parent teacher meeting jointly with department of Chemistry and department of Zoology for semester- I on 22/12/2022.

Chief Patron: Dr. Soma Roy. Principle. Serampore Girls' College.

Teachers: Dr. Madhusree Halder (Department of Botany), Ms. Madhurima Boral (Department of Chemistry), Dr. Ananya Ali (Department of Zoology).

Platform: Google Meet

Report attached below.

- ✚ **A field tour to Chinsurah Rice Research Station** was organized in accordance with semester-1 and 6 CBCS syllabus, Botany (G), University of Calcutta on 21/02/2022. Supporting document attached below.

A local field excursion for the students of semester 2 was organized by Department of Botany, Serampore Girls' College at the surrounding areas of Serampore, on 19/05/2022. This field visit enriched our students with local plant diversity, their habit and habitat. Supporting document attached below.

- ✚ Mentoring of 6th semester students were done by was done by the faculty of Department of Botany on 3/11/2022. (Report attached below). Other two semesters were mentored by Dr. Ananya Ali, Department of Zoolgy and Dr. Ipsita Chakraborty Department of Chemistry.
- ✚ Orientation program for 1st semester students was organized by Department of Bio-science on 4/10/2021. This program help the students a lot specially the first semester students to know about the faculty members, 3-years course structure and CBCS syllabus, regarding the scholarships they can avail and more. Report and supporting documents attached below. Platform:Google meet.(Report attached below)

CLASS TEST OF SEMESTER 1: Question paper/ awarded marks of students/Notice

**Serampore Girls College
Subject-Botany
Paper- CC1/GE1
Class test-1
FM- 20. Time- 1 hr.**

A. Answer the following.

1. one pseudobranched and parenchymatous algae.(2)
2. What do you mean by palmella stage? (2)
3. What is red and green snow? (2)
4. Write the different pigment composition of chlorophyceae, rhodophyceae, pheophyceae and cyanophyceae. (2)
5. Name one parasitic alga along with its host and disease it creates. (2)

B. Write any 2 (2x5=10)

1. Write a short note on alternation of generation in algae. (5)
2. Describe salient features of rhodophyceae.(5)
3. Draw and describe the cell structure of Chlamydomonas. (5)
4. Draw the life cycle of Chlamydomonas. Describe sexual reproduction method. (2+3)

ক. নিম্নলিখিত প্রশ্নগুলির উত্তর দাও

১. ছদ্মশাখাঙ্ঘিত এবং প্যারেনকাইমাটাস শৈবালের উদাহরণ দাও।
২. পামেলা -দশা বলতে কী বোঝ?
৩. লাল এবং সবুজ বরফ বলতে কী বোঝ?
৪. ক্লোরোফাইসি, রোডোফাইসি, ফিওফাইসি এবং সায়ানোফাইসিতে প্রাপ্ত রঞ্জক গুলি লেখ.
৫. একটি পরজীবী শৈবালের নাম, তার পোষক এবং তার দ্বারা সৃষ্ট রোগের নাম লেখ.

খ .যে কোন দুটি প্রশ্নের উত্তর দাও(২x৫ = ১০)

১. শৈবালের অনুক্রম সম্পর্কে সংক্ষিপ্ত বিবরণ দাও।(৫)
২. রোডোফাইসি এর বৈশিষ্ট্য লেখ।(৫)
৩. ক্ল্যামাইডোমনাস কোষ এর চিত্রসহ বর্ণনা দাও।(৫)
৪. ক্ল্যামাইডোমনাস এর জীবন চক্র অঙ্কন কর। ইহার যৌন জনন সম্পর্কে লেখ।(২+৩)

Serampore Girls'College

Class test

Subject-Botany (G)

Semester-1

Full marks-30.

Time-1:30hr

Answer the following (each of 2 marks)

1. What is meant by palmella stage?

পামেলা দশা বলতে কী বোঝ?

2. What is the stored food material of of Pheophyceae and rhodophyceae?

ফিওফাইসি এবং রোডো ফাইসির সঞ্চিত খাদ্য বস্তু কী?

3. Write 4 main features of Pheophyceae.

ফিওফাইসির 4টি প্রধান বৈশিষ্ট্য লেখ।

4. What is meant by haplo-diplontic life cycle?

হ্যাপ্লোডিপ্লন্টিক জীবনচক্র বলতে কী বোঝ?

5. Write names of 2 economically important algae and their uses.

অর্থনৈতিক ভাবে গুরুত্বপূর্ণ দুটি শৈবালের নাম এবং তাদের ব্যবহার লেখ।

6. Write any 4 salient features of fungi.

ছত্রাকের 4টি চারিত্রিক বৈশিষ্ট্য লেখ।

7. Define Dolipore Septum. In which type of fungi you can see this?

ডোলিপোর সেপ্টাম এর সংজ্ঞা দাও। কী জাতীয় ছত্রাকে এটি দেখতে পাও ?

8. Define anomocytic stomata with Suitable diagram

চিরসহ অ্যানোমোসাইটিক পত্ররঞ্জের সংজ্ঞা লেখ।

9. Define Gramineous stomata with Suitable diagram.

চিত্রসহ গ্রামিনিসিয়াল পত্ররসের সংজ্ঞা লেখ।

10. Write names of 4 phytopathogen which are necrotic in nature.

চারটি নেক্রোটিক উদ্ভিদ প্যাথোজেনের নাম লেখ।

11. What is Koch's postulate?

কক্ এর নৌপিক নীতি কী?

12. Define disease triangle with suitable diagram.

চিত্রসহ রোগ ত্রিকোণের সংজ্ঞা দাও।

13. Write names of 2 hemibiotrophic phytopathogenic fungi.

দুটি হেমিবায়োট্রফিক ফাইটোপ্যাথোজেনিক ছত্রাকের নাম লেখ।

14. Name the causal organism of Stem rot of jute. Write any two control measurement.

পাটের কাণ্ডের পচনের রোগ সৃষ্টিকারী জীবাণুর নাম লেখ। রোগ দমনের দুটি উপায় লেখ।

15. Draw a line diagram of disease cycle of late blight of potato.

আপুুর বিলম্বিত ধস্বা রোগের রোগ চক্রটির রেখচিত্র অঙ্কন করা

Serampore Girls' College

Subject- Botany (G)

Semester-1

Online assessment

Date- 31.01.2022

Time: 2 hour

FM: 40

Answer the following-

1. Characterize: (each 5)

শীর্ষক লিখি করে -

a. Mastigomycotina

b. Zygomycotina

c. Oomycetes

2. Draw and describe the anatomy of *Ascobolus* fruit body.

আস্কোবোলাস এর গুণ্ডা বর্ণনা করুন এবং চিত্র আঁকুন। (10)

3. Draw and describe the sexual life cycle of *Rhizopus*. (10)

রিজোপাসের লিঙ্গ জীবন চক্র বর্ণনা করুন। - *Rhizopus*.

4. Draw and describe anatomy of Lichen thallus (5)

লিখেনের থ্যালাসের গুণ্ডা বর্ণনা করুন এবং চিত্র আঁকুন।

or

Write a short note on economic and ecological importance of Lichen. (5)

লিখেনের অর্থনৈতিক এবং বাস্তুসংস্থগত গুরুত্ব সম্পর্কে একটি সংক্ষিপ্ত নোট লিখুন।

CLASS TEST OF SEMESTER 2: Question paper/ awarded marks of students/Notice

Serampore Girls' College
 Subject- Botany (G)
 Semester-2 Class test(6/4/22)

Name one heterosporous genus and one homosporous genus of pteridophyte. (2)

একটি অসমরেনুপ্রসু ও একটি সমরেনুপ্রসু টেরিডোফাইটের উদাহরণ দাও।

What is ligule? (1)

লিগিউল কী?

Write the morphological nature of rhizophore of Selaginella.(5)

সেলাজিনেলার রাইজোফোরের অঙ্গসংস্থানিক গঠনের ওপর সংক্ষিপ্ত টীকা লেখ।

Write the systematic position of Selaginella.(2)

সেলাজিনেলার শ্রেণীগত অবস্থান লেখ।

Draw the lifecycle of Selaginella. (5)

সেলাজিনেলার জীবনচক্র অঙ্কন কর।

Serampore Girls' College
 SERAMPORE, WESTBENGAL
 B.A. (H) - Botany - I Examination, 20
 Subject - Botany - OCT/GEV
 Prof. Name - 12
 16/04/22

Roll No.	Mark	Roll No.	Mark
2791	0	287	
2792	1.5	288	
2793	5	289	
2794	3	290	
2795	3	291	
2796	0	292	
2797	5	293	
2798	0	294	
2799	0	295	
2800	10	296	
2801	0	297	
2802	0	298	
2803	0	299	
2804	0	300	
2805	0	301	
2806	0	302	
2807	0	303	
2808	0	304	
2809	0	305	
2810	0	306	
2811	0	307	
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2893	0	389	
2894	0	390	
2895	0	391	
2896	0	392	
2897	0	393	
2898	0	394	
2899	0	395	
2900	0	396	
2901	0	397	
2902	0	398	
2903	0	399	
2904	0	400	

CLASS TEST OF SEMESTER 3: Notice/ Question paper/ Awarded marks

Serampore Girls' College

(Estd. : 1981)

Accredited by NAAC

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Department of SCIENCE

Ref. No.

Date.....

NOTICE

There will be a class test for 3rd semester students of Department of Botany on 01.10.2021 (Friday). All students are instructed to present on that day and attend the test.

আগামী ০১.১০. ২০২১ (শুক্রবার) উদ্ভিদবিদ্যা বিভাগের তৃতীয় অধবর্ষের ছাত্রীদের ক্লাস টেস্ট নেওয়া হবে। সমস্ত ছাত্রীকে পরীক্ষার দিন উপস্থিত থেকে পরীক্ষা দিতে নির্দেশ দেওয়া হচ্ছে।

Syllabus: Mutation

Serampore Girls' College
Department of Botany
Semester-III
Online Class test-I

Dated: 1/10/2021
FM= 20
Time- 1 hour

1. Answer these questions. (2 marks each)

- a. Define mutagen. Write the types of mutagens.
- b. What are depuration and deamination.
- c. Define transition and transversion mutation.
- d. What is non-sense mutation?
- e. What is antibiotic resistant mutant?

2. Answer any 2 (5 marks each)

- a. Write a short note on tautomeric shift.
- b. Write a short note on thymine dimer.

1. Answer these questions. (2 marks each)

- a. মিউটাজেন কী? মিউটাজেন কয় প্রকার ও কী কী?
- b. ডি অ্যামিনেশান এবং ডিপিউরিনেশান বলতে কী বোঝ?
- c. ট্রান্সিশান এবং ট্রান্সভারশান মিউটেশনের সংজ্ঞা লেখ।
- d. ননসেন্স মিউটেশান বলতে কী বোঝ?
- e. Antibiotic resistant মিউটেশান বলতে কী বোঝ?

2. Answer any 2 (5 marks each)

- টীকা লেখ- টোটোমেরিক শিফট।
- থাইমিন ডাইমার।

Serampore Girls' College

(Estd. : 1981)

Accredited by NAAC

13, T. C. GOSWAMI STREET, SERAMPORE, HOOGHLY, PIN-712 201, WEST BENGAL.
Ph: (033) 2652 9334 • (033) 26527850 (Principal) • 26623723 (Office) • 2652-0008
E-mail : science@seramporegirlscollege.org • sgc.scdept@gmail.com

Department of SCIENCE

Ref. No.

Date.....

NOTICE

There will be a class test for 3rd semester students of Department of Botany on 09.11.2021 (Tuesday). All students are instructed to attend the class test.

আগামী ০৯.১১.২০২১ (মঙ্গলবার) উদ্ভিদবিদ্যা বিভাগের তৃতীয় অধবর্ষের ছাত্রীদের ক্লাস টেস্ট নেওয়া হবে। সমস্ত ছাত্রীকে পরীক্ষা দিতে নির্দেশ দেওয়া হচ্ছে।

Syllabus (বিষয়সূচি): Unit 1 and unit 3

Serampore Girls College
Department of Botany
Subject-Botany (G)
Semester-3
Class test-2
Full marks 20 time- 1 hr.

A. Answer the following questions

1. Name the constituents of histone octamer core.
 2. What do you mean by central dogma of life.
 3. What do you mean by semi conservative DNA replication?
 4. What is meant by Okazaki fragment?
 5. What do you mean by start and stop codon?
- B. 3. Describe the process of transcription in E.coli.(5)
- C. 4. How is protein synthesized from an mRNA sequence.(5)

ক। নিম্নলিখিত প্রশ্ন গুলির উত্তর দাও

- ১। হিস্টোন অক্টামার কোর এর উপাদান গুলি লেখ ।
- ২। জীবনের সেন্ট্রাল ডগমা বলতে কী বোঝ?
- ৩। অর্ধ-সংরক্ষিত DNA প্রতিলিপি করন বলতে কী বোঝ?
- ৪। ওকাজাকি টুকরো বলতে কী বোঝ?
- ৫। প্রারম্ভিক এবং অন্তিম কোডন বলতে কী বোঝ?

খ। E.coli এর ট্রান্সক্রিপশন পদ্ধতি বর্ণনা কর ।(৫)

গ। mRNA সঙ্কে থেকে কীভাবে প্রোটিন তৈরী হয়?(৫)

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Department of SCIENCE

Ref. No.

Date.....

NOTICE

There will be a class test for 3rd semester students of Department of Botany on 21.12.2021 (Tuesday). All students are instructed to present on that day and attend the test.

আগামী ২১.১২. ২০২১ উদ্ভিদবিদ্যা বিভাগের তৃতীয় অধবর্ষের ছাত্রীদের ক্লাস টেস্ট নেওয়া হবে। সমস্ত ছাত্রীকে পরীক্ষার দিন উপস্থিত থেকে পরীক্ষা দিতে নির্দেশ দেওয়া হচ্ছে।

Serampore Girls' College
Department of Botany
Class Test-2021
Subject: BOT (G)
Semester-III
Paper: BOT-G-CC-3-3-TH
Cell Biology, Genetics and Microbiology

Full marks: 10

Time: 30 min

Answer the following:

1. What is deamination and depurination? (2)
ডি-অ্যামিনেশান এবং ডিপিউরিনেশান বলতে কী বোঝ?
2. What do you mean by transition and transversion mutation? (2)
ট্রান্সিশন এবং ট্রান্সভারশান মিউটেশন বলতে কী বোঝ?
3. What is nullisomy? (2)
নালিসোমি কি?
4. What do you mean by trisomy 21? Give example of plant trisomy. (2)
ট্রিসোমি ২১ বলতে কী বোঝ? উদ্ভিদের ট্রিসোমির উদাহরণ দাও।
5. What is meant by A, P and E site of ribosome? (2)
রইবোজোমের A, P এবং E সাইট বলতে কী বোঝ?
6. Explain t- RNA charging. (2)
t- RNA চার্জিং ব্যাখ্যা করো।
7. Name the major component of bacterial cell wall. (2)
ব্যাকটেরিয়ার কোষ প্রাচীর এর প্রধান উপাদান গুলির নাম লেখ।

8. Write the differences between gram positive and gram-negative bacteria. (2)

গ্রাম পজিটিভ এবং গ্রাম নেগেটিভ ব্যাকটেরিয়া পার্থক্য লেখ।

9. Draw the flow diagram of nuclear splicing through lariat formation. (2)

নরিয়েট লৈরির মাধ্যমে নিউক্লিয়ার স্প্লাইসিং পদ্ধতির রেখচিত্র অঙ্কন করো।

10. What is meant by 5' capping? (2)

5' ক্যাপিং বলতে কী বোঝো?

11. Write the function of TFII B and T FII H. (2)

TFII B এবং TFII H এর কাজ লেখ।

12. Define Central dogma. (2)

সেন্ট্রাল ডগমা বলতে কী বোঝো?

13. Write the names of the enzyme involved in the process of transcription. (2)

ট্রানস্ক্রিপশন এ সাহায্যকারী উৎসেচক গুলির নাম লেখ।

14. Define mutagen with example. (2)

মিউটাজেন কি? উদাহরণ দাও।

15. What is thymine dimer? (2)

থাইমিন ডাইমার বলতে কী বোঝ?

Serampore Girls' College
B.Sc. Semester-IV
Class Test 2022
Subject –Botany (General)
Paper- BOT-G-CC 4-4-TH
Plant Physiology and Metabolism

Total Marks- 10

Time-30 min

Answer the following:

1. What are the different factors affecting transpiration. (2)

বাপ্পমোচন এর বিভিন্ন ধরনের প্রভাবকের সম্পর্কে লেখ।

2. Define anti transpirant with example. (2)

বাপ্পমোচন প্রতিরোধী পদার্থ বলতে কী বোঝা উদাহরণসহ লেখ।

3. Write a short note on starch- sugar hypothesis of transpiration. What is guttation? (5+1)

স্টার্চ-শর্করা মতবাদ সম্পর্কে সংক্ষিপ্ত টীকা লেখ। নিঃস্রাবন বলতে কী বোঝা?

Berampore Girls' College
B.Sc. Semester-IV
Class Test 2022
Subject – Botany (General)
Paper- BOT-G-SEC-B
Plant Biotechnology

Full Marks- 30

Time-1hr 30 min

Answer the following:

1. What is explant? (1)

এক্সপ্ল্যান্ট কবতে কী বোঝো:

2. Who is known as father of plant tissue culture? (1)

ঔদ্বিগ কলা পালনের জনক কাকে বলা হয়:

3. What is totipotency? (1)

টোটিপোটেন্সি কবতে কী বোঝো:

4. Write the full form of HEPA. (1)

HEPA এর পুরো কথা লেখ।

5. What is callus? (1)

ক্যালাস কবতে কী বোঝো:

6. What is androgenesis? (1)

আন্দ্রোগেনেসিস কবতে কি বোঝ:

7. Write the difference between the dedifferentiation and re-differentiation. (2)

ডি-ডিফারেন্সিয়েশন এবং রি-ডিফারেন্সিয়েশন এর পার্থক্য লেখ।

8. Write the concentration of HgCl₂ used for surface sterilization of explant. (1)

এক্সপ্ল্যান্টের উপরের ত্বক নির্বীজকরণ করার জন্য HgCl₂ কোন কনসেন্ট্রেশন ব্যবহার করা হয়:

9. What is artificial seed? (1)

কৃত্রিম বীজ কবতে কী বোঝো:

10. Write a short note on Totipotency and importance of callus culture. (5+5)

টোটিপোটেন্সি এবং ক্যালাস কবনের গুরুত্ব সম্পর্কে সংক্ষিপ্ত টীকা লেখ।

11. What is micropropagation? Describe the steps of micro preparation with suitable diagram.

Write the merits and demerits of micropropagation. (1+4+5)

মাইক্রোপ্রোপাগেশন কবতে কী বোঝো: উপযুক্ত চিত্রের মাধ্যমে মাইক্রোপ্রোপাগেশন এর ধাপ গুলি বর্ণনা করো।

মাইক্রোপ্রোপাগেশন এর সুবিধা এবং অসুবিধা গুলি লেখ।

Serampore Girls' College
B.Sc. Semester-IV
Class Test 2022
Subject – Botany (General)
Paper- BOT-G-CC 4-4-TH
Plant Physiology and Metabolism

Full Marks- 30

Time-1hr 30 min

Answer the following:

1. Distinguish between nitrification & denitrification. Explain the process of biological nitrogen fixation. (2+8)

নাইট্রিফিকেশন এবং ডিনাইট্রিফিকেশন এর মধ্যে পার্থক্য লেখা জীবজ নাইট্রোজেন সংবন্ধন পদ্ধতি বর্ণনা করো।

2. Explain the biochemistry of nitrogen fixation: nitrate, nitrite & ammonia assimilation. What is trans-amination? (3+3+3+1)

নাইট্রোজেন সংবন্ধন এর বায়োকেমিস্ট্রি ব্যাখ্যা করো: নাইট্রেট, নাইট্রাইট এবং অ্যামোনিয়া অ্যাসিমিলেশন ট্রান্সঅ্যামিনেশন কাকে বলে?

3. With proper diagrams describe the stages of root nodule formation in leguminous plants. Where can you see stem nodules? Name a non-leguminous plant where nodules are found. (8+1+1)

উপযুক্ত চিত্রের মাধ্যমে লিগুমিনাস উদ্ভিদের মূলে অর্বুদ গঠন প্রক্রিয়া বর্ণনা করো। একটি উদ্ভিদের নাম লেখ যেখানে কাণ্ডে অর্বুদ দেখা যায়? একটি নন লিগুমিনাস উদ্ভিদের নাম করো যেখানে অর্বুদ গঠন দেখা যায়।

CLASS TEST OF SEMESTER V: Notice/ Question paper/ awarded marks of students

Serampore Girls College
 Department of Botany
 Semester-5
 Assignment-1
 29/10/2021

FM=

Answer the following questions:

1. Give a brief idea about different indigenous medicinal sciences. [10]

বিভিন্ন দেশের ঔষধি বিদ্যা সম্পর্কে সংক্ষেপে লিখ।

2. What do you mean by PHF? What is the difference between PHF and single herbal medicine? Write the advantages and disadvantages of PHF. (2+ 2+6)

খনি হাটের ঔষধিবিদ্যা কাকে বলা হয়? বিজ্ঞান হাটের ঔষধিবিদ্যা এবং খনি হাটের ঔষধিবিদ্যা (সিঙ্গেল হার্বাল মেডিসিন) এর পার্থক্য লিখ। খনি হাটের ঔষধিবিদ্যার সুবিধা এবং অসুবিধা লিখ।

3. Define pharmacognosy. Differentiate between primary and secondary metabolites. Write the role of any two types of secondary metabolites in pharmacognosy. (2+3+5)

ফার্মাকোগনসি কাকে বলা হয়। প্রাথমিক এবং দ্বিতীয় স্তরের মেটাবলিটসের পার্থক্য লিখ। ফার্মাকোগনসি-তে দুই ধরনের দ্বিতীয় স্তরের মেটাবলিটসের ভূমিকা লিখ।

4. How crude drugs can be evaluated by organoleptic evaluation. (5)

কঠোরভাবে ক্রুড ড্রাগসের মূল্যায়ন কীভাবে অর্গানলেপ্টিক মূল্যায়ন করে করা হয়?

5. Write Name, sources, parts used and uses of : (3x3)

- a. Strychnine
- b. Capsaicin

- b. Cardiac disease
- c. Diabetes.

কোন রক্তচাপ হ্রাস এবং রক্তচাপ বৃদ্ধি করে অধিক উপকারক নয় এবং রক্তচাপ হ্রাসে উল্লিখিত রোগের চিকিৎসা করে।

- a. অসিটিক
- b. মায়রিন
- c. ক্যাফেইন

- c. Gingerol
- d. Reserpine
- e. Vinblastin
- f. Catechin
- g. Dasgerin
- h. Digboxin
- i. Curcuminoids

কম, উষ্ণ, কঠোর মাংস এবং বৃষ্ণের রস-

- a. গুণ্ডুলি
- b. কালকটাইনি
- c. সিন্ধুফল
- d. কেরোলিন
- e. সিন্ধুফল
- f. ক্যাটচিন
- g. ডায়াজেনিন
- h. ডিগক্সিন
- i. ক্যুরকুমিনয়েডস

6. What do you mean by Ethnobotany? Who did coin the term? Who is called the father of Ethnobotany? Distinguish between Ethnobotany and folk medicine. Write the application of Ethnobotany. (1+1+ 1+4+3)

এথনোবটানি কাকে বলা হয়? এথনোবটানি শব্দটি কে প্রথম প্রয়োগ করে? এথনোবটানির বাবা কে? এথনোবটানি এবং ফোক মেডিসিনের পার্থক্য লিখ। এথনোবটানির প্রয়োগ লিখ।

7. Name medicinal plants and their active ingredients used in the treatment of :

- a. Jaundice

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Department of SCIENCE

Ref. No.

Date.....

NOTICE

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আগামী ২১.১২.২০২১ (মঙ্গলবার) উদ্ভিদবিদ্যা বিভাগের পঞ্চম অধবর্ষের ছাত্রীদের ক্লাস টেস্ট নেওয়া হবে। সমস্ত ছাত্রীকে পরীক্ষার দিন উপস্থিত থেকে পরীক্ষাটি দিতে নির্দেশ দেওয়া হচ্ছে।

Syllabus : বিষয় সূচী) - DSE A UNIT 1,4, and 5

Serampore Girls' College

Class Test

Sub: BOTG (SEM 5)

Paper : DSE A

E.M : 30

PHYTOCHEMISTRY and MEDICINAL BOTANY

Time – 2 hr

Date : 21/12/2021

- 1) Define Ethnobotany. who is the father of ethnobotany ? (1*1)
ইথনোবোটানির সংজ্ঞা লেখ । এর জনক কাকে বলা হয় ?
- 2) Write the name of alkaloids obtained from Rauwolfia serpentina. (2)
সর্পাঙ্গা থেকে প্রাপ্ত কয়েকটি উপদ্রব্যের নাম লেখ ।
- 3) Write the source and uses of Capsaicin . (2)
ক্যাপসাইসিন এর উৎস এবং ব্যবহার লেখ ।
- 4) From which plants we can extract tannin and alkaloids ? (2)
কোন গাছ থেকে ট্যানিন এবং উপদ্রব্য নিষ্কাশন করা হয় ?
- 5) Write the types of Terpenoids. (2)
টারপিনয়েডের প্রকারভেদ লেখ ।
- 6) Name 4 plants and their families which are used to treat cardiac diseases. (2)
৪ টি গাছের নাম এবং গোত্র লেখো যেগুলি হৃদযন্ত্রের উপশমের জন্য ব্যবহৃত হয় ।
- 7) What is meant by Organolectic evolution. (2)
অর্গানোলেক্টিক মূল্যায়ন বলতে কি বোঝে ?
- 8) Write difference between primary and secondary metabolites . (2)
প্রাথমিক এবং সৌচিক বিপাকময় পদার্থের পার্থক্য লেখ ।
- 9) Name 2 edible mushroom .(2)
দুটি খাদ্য উপযোগী মশরুম এর নাম লেখ ।
- 10) What are the symptoms of jaundice ? (2)
ভাঙ্গির এর রোগ লক্ষণগুলি লেখ ।
- 11) What are the symptoms of diabetes ? (2)
অসহিবীপ এর রোগ লক্ষণগুলি লেখ ।
- 12) Write the name and family of the plants from which clovegin and digtoxin are extracted. (2)
অক্লোজেনিন এবং ডিজিটক্সিন এর উৎস গাছগুলির নাম এবং গোত্র লেখ ।
- 13) What are the main terpenoids found in citrus fruit and cinnamon bark? (2)
লেবু গাছের ফল এবং মাজুচিনির গাছের বাকল থেকে কি কি টারপিনয়েড পাওয়া যায় ?
- 14) Write any 4 applications of ethnobotany. (2)
ইথনোবোটানির ৪ টি প্রয়োগ লেখ ।
- 15) Who is known as father of Siddha ? Define polyherbal formulation. (2)
সিদ্ধা চিকিৎসাশাস্ত্রের জনক কাকে বলা হয় ? পলিহাৰ্বাল ফর্মুলেশন বলতে কি বোঝে ?

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Department of SCIENCE

Ref. No.

Date.....

NOTICE

There will be a class test for 5th semester students of Department of Botany on 24.12. 2021 (Friday). All students are instructed to attend the test.

আগামী ২৪.১২.২০২১ (শুক্ৰবার) উদ্ভিদবিদ্যা বিভাগের পঞ্চম অধবর্ষের ছাত্রীদের ক্লাস টেস্ট নেওয়া হবে। সমস্ত ছাত্রীকে পরীক্ষার দিন উপস্থিত থেকে পরীক্ষাটি দিতে নির্দেশ দেওয়া হচ্ছে।

Syllabus (বিষয় সূচী) - SEC -A : Biometry.

Serampore Girls' College
Sub: Botany (General)
Semester: V
Paper: SEC A
Plant Breeding and Biometry
Class Test

1. What is standard deviation?
প্রমাণ বিচ্যুতি কাকে বলে?
2. What is arithmetic mean? Give example.
গড় কাকে বলে? উদাহরণ দাও।
3. What is variance and how is it calculated?
ভেদমান কাকে বলে এবং ইহা কীভাবে নির্ণয় করা হয়?
4. What do you mean by coefficient of variation?
পরিবর্তনের গুণাঙ্ক বলতে কী বোঝ?
5. What is standard error and how is it calculated?
প্রমাণ ত্রুটি কাকে বলে এবং ইহা কীভাবে নির্ণয় করা হয়?
6. Define biometry and population.
জীবমিতি এবং জনসংখ্যার সংজ্ঞা দাও।
7. What do you mean by mode and median?
মোড এবং মধ্যমা বলতে কী বোঝ?
8. What is Chi-square test? How is it calculated?
কাই স্কোয়ার পরীক্ষা কাকে বলে? ইহা কীভাবে নির্ণয় করা হয়?
9. What is probability?
সম্ভাব্যতা বলতে কী বোঝ?
10. What do you mean by "Goodness of fit"?
গুডনেস অফ ফিট্ বলতে কী বোঝ?

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Department of SCIENCE

Ref No. _____

Date: 03/03/2022

NOTICE

There will be a class test for 6th semester students of Department of Botany on 08.03.2022 (Tuesday). All students are instructed to present on that day and attend the test.

অপরাহ্নে ০৮.০৩.২০২২ (মঙ্গলবার) উদ্ভিদবিদ্যা বিভাগের ষষ্ঠ অর্থবর্ষের ছাত্রীদের ক্লাস টেস্ট নেওয়া হবে। সমস্ত ছাত্রীকে পরীক্ষার দিন উপস্থিত থেকে পরীক্ষা দিতে নির্দেশ দেওয়া হচ্ছে।

Syllabus (বিষয় সূচী) – Unit-2, Rice

Madhura Halder

Signature of teacher

Department of Botany
Serampore Girls' College
Serampore, Hooghly

Serampore Girls' College
B.Sc. Semester-VI
Class Test 2022
Subject – Botany (General)
Paper- BOT-G-DSE-B-6-3-TH
Economic Botany

Full Marks- 12

Time-30 min

Answer the following:

1. Write a short note on the morphology of rice plants. Write its scientific name & family. (4+2)

ধান গাছের অঙ্গসংস্থানিক বৈশিষ্ট্য গুলি লেখ। ইহার বিজ্ঞানসম্মত নাম ও গোত্রের নাম লেখ।

2. Write uses of rice. Give an idea of origin of rice. (3+3)

ধানের ব্যবহার লেখ। ইহার উৎপত্তি সম্পর্কে ধারণা দাও।

Serampore Girls' College

SERAMPORE, HOOGHLY

B.A/B.Sc. Sem. 6

Examination, 20

Subject: Botany (G) DSE - (U)

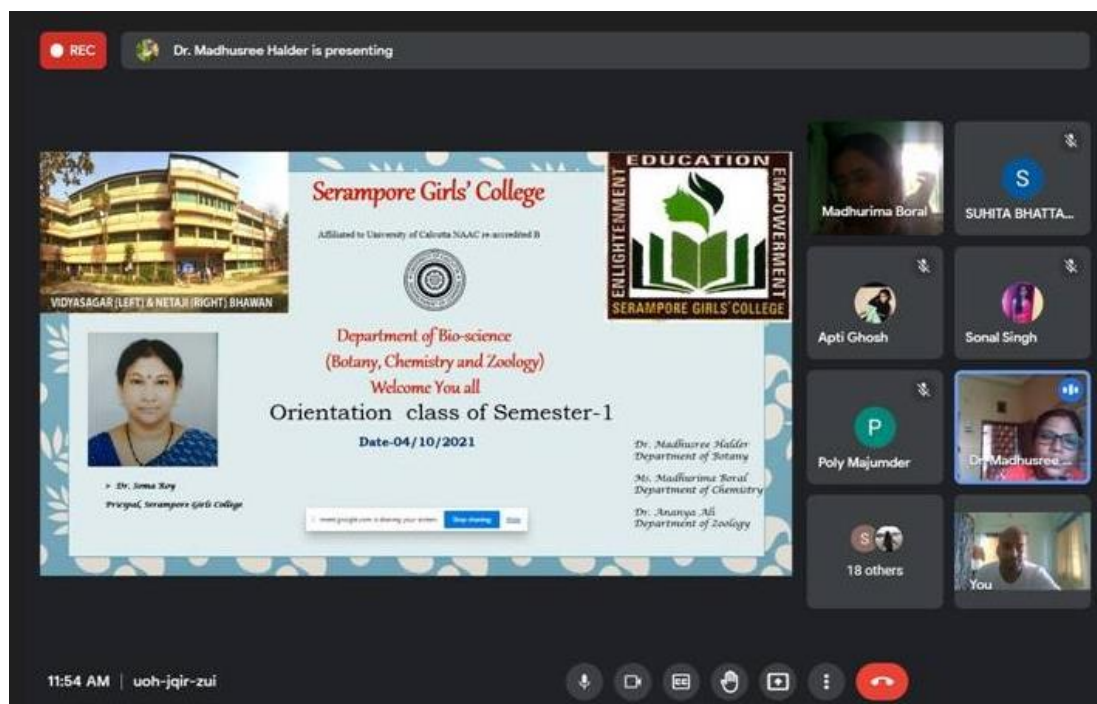
Full Marks: 12

Roll No.	Paper I	Roll No.	Paper II	Roll No.	Paper III	Roll No.	Paper IV
79	09						
69	09						
78	10						
69	10						
66	09						
67	10						
59	10						
68	09						

Date: 2/3/22

Signature of the Examiner

Orientation program for 1st semester students



Photos from the event



Halder
Department of Botany
Serampore Girls' College
Serampore, Hooghly

Boral
Department of Chemistry
Serampore Girls' College
Serampore, Hooghly

Ananyadi
Department of Zoology
Serampore Girls' College
Serampore, Hooghly

Serampore Girls' College Departments Of Biological Sciences

Report of Orientation Program 2021-22.
Date – 4/10/2021

On 4th of October, 2021, the faculties of Departments of biological sciences organized an online Orientation Program for first semester students to discuss about their prospective bio-sciences' curriculum. At very first we would like to express our sincere gratitude towards Dr Soma Roy, honourable Principal of our well reputed institute Serampore Girls' College; for her valuable permission for this program to be arranged. Dr. Madhusree Halder from Deptt. Of Botany, Ms. Madhurima Boral from Deptt. Of Chemistry and Dr. Ananya Ali from Deptt. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Ms Soumi Dey as lab attendant will be always remembered as that became pivotal to the path of this journey. Also, the faculties and members from several Departments of Sciences were quite helpful in solving several technical and official details that finally made this program possible to be organized.

Students and their parents took part enthusiastically and we the faculty members one by one discussed each of our subject syllabus and prospective academic routines. We also highlighted the future scopes of respective subjects and how students can prosper more.

All the member of Department of Biological Sciences will surely concentrate to improve further and are hopeful that in coming days any problem, if come, will surely be sorted out as much as possible to upgrade the teaching learning process for the students.

Boral
Department of Chemistry
Serampore Girl's College
Serampore, Hooghly

Halder
Department of Botany
Serampore Girl's College
Serampore, Hooghly

Ananyadi
Department of Zoology
Serampore Girl's College
Serampore, Hooghly

Teachers' Signature

Department of Botany

Date of mentoring class: 03/11/2021

1. Name of Teacher and number of students, mentored semester wise:

No.	Name of Teachers	No of students, being mentored	Semester
1	Dr. Madhusree Halder	12	VI

2. Some issues which require mentoring and how those students are mentored:

3.

No.	Issues	Demands	Mentoring methods
1	Laboratory requirements	Better equipments and more organized laboratories are required.	Meeting with faculties
2	Library requirements	Enough number of books and reading room for studying.	Meeting with faculties
3	Better classroom	Proper number of spacious, clean and hygienic classroom.	Meeting with faculties
4	Fellowships	Some deserving students with appropriate needs have been identified.	Meeting with faculties
5	Travel concession	Most of our students come to the college by availing public transport. Travel concession will help them to reach college with more ease.	Meeting with faculties

4. Students name, their roll no in academic session 2019-20 and half free/ full free in a table:

No.	Name of Students	Full free/ half free	Semester
-----	------------------	----------------------	----------

1	Ishita Santra	Full free	VI
2	Bushra Afzal	Half free	VI

5. Remarks

- i) Students will be more benefitted if college website will keep a clear domain that will give them most of the details and requirements, clearly, to avail any fellowship. Thus, they can check by their own if they are eligible for any fellowship or not.
- ii) Betterment of lab infrastructure & need to have separate laboratory of Botany.
- iii) A student, named, Bushra Afzal, has shared some information regarding her parents' income and environment of home that are of serious concern for a student's betterment in academic field. Thus, despite of her little compromised performance, faculties cumulatively have agreed to promote her name for either any fellowship or concession in college fee or travel concessions etc.
- iv) Another Student, named Ishita Santra hold a good academic record suffered economical problem. Hence the faculty member cumulatively proposed her name for concession of college fee.



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E-mail : science@seramporegirlscollege.org • egc_sdept@gmail.com

Ref No _____

Date 10/12/2021

NOTICE

Departments of bio-Sciences have arranged an Open House Program on 14th December, 2021; from 2:00 p.m. – 3:00 p.m. Students of semester 1, are being requested to attend the program, positively at the mentioned time. Dr. Madhusree Halder, Dept. of Botany; Ms. Madhurima Boral, Dept. of Chemistry; Dr. Ananya Ali, Dept. of Zoology will host the program, jointly.


Department of Botany,
Serampore Girls' College

Department of Botany
Serampore Girl's College
Serampore, Hooghly


Department of Chemistry,
Serampore Girls' College

Department of Chemistry
Serampore Girl's College
Serampore, Hooghly


Department of Zoology,
Serampore Girls' College

Department of Zoology
Serampore Girl's College
Serampore, Hooghly

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Department of SCIENCE

Ref No _____

Date 14.12.21

Questions for Open House Discussion :-

1. Problem regarding offline Class.
2. Availability of books in library as well as purchased by them.
3. Your opinion regarding college administration.
4. Comments on Teaching Learning Methods.
5. Comments on Departmental Routine.
6. Problems in Laboratory. (Hardware & Software)
7. Transportation problem.

Serampore Girls' College

Departments Of Biological Sciences

Report of Open House Program 2021-22.

Date – 14/12/2021

On 14th of December, 2021; the faculties of Departments of biological sciences organized an Open House Program for first semester students to discuss about their views regarding several issues those have been faced by them during both online and offline sessions. At very first we would like to express our sincere gratitude towards Dr Soma Roy, honourable Principal of our well reputed institute Serampore Girls' College; for her valuable permission for this program to be arranged. Dr. Madhusree Halder from Deptt. Of Botany, Ms. Madhurima Boral form Deptt. Of Chemistry and Dr. Ananya Ali from Deptt. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Ms Soumi Dey as lab attendant will be always remembered as that became pivotal to the path of this journey. Also, the faculties and members form several Departments of Sciences were quite helpful in solving several technical and official details that finally made this program possible to be organized.

Students took part enthusiastically and pointed out a good bunch of issues those are in real need to be solved for a healthy and happy educational environment. They were extremely happy to be able to return the offline class and wanted to continue at offline system. Due to this they felt the classrooms are in need of upgradation like better black boards, function lights and proper window system that can prevent rain waters etc. Also, they were very much worried about the washroom conditions and mentioned the situation as "Unhygienic" due to a lot of issues like non-functional lights, unavailability of water etc. At biological laboratories water basins were not functional during many practical work sessions and that posed huge issues to finish their work at proper time. A more lot of issues regarding upgradation of chemistry lab was put forwarded like – absence of laboratory utensils, glass wares, appropriate burner and gas connection system, chemical storage rack and proper cleaning and maintenance.

All the member of Department of Biological Sciences will surely concentrate on the matters and are hopeful that in coming days those problems will surely be sorted out as much as possible.

Madhusree Halder
Department of Chemistry
Serampore Girls' College
Serampore, Hooghly

Madhurima Boral
Department of Botany
Serampore Girls' College
Serampore, Hooghly

Ananya Ali
Department of Zoology
Serampore Girls' College
Serampore, Hooghly

Teachers' Signature

Photos from the event



Ananya
Department of Zoology
Serampore Girls' College
Serampore, Hooghly

Nisal
Department of Chemistry
Serampore Girls' College
Serampore, Hooghly

Hrida
Department of Botany
Serampore Girls' College
Serampore, Hooghly



Serampore Girls' College

Departments Of Biological Sciences

Report of Internal Faculty Exchange Program 2021-22.

Date – 14/12/2021

On 14th of December, 2021; the faculties of Departments of biological sciences organized an Internal faculty exchange Program for third and fifth semester students where Dr. Madhusree Halder from Department of Botany took a class of zoology for fifth semester and Dr. Ananya Ali from Department of Zoology took a class of botany for third semester. At very first we would like to express our sincere gratitude towards Dr Soma Roy, honourable Principal of our well reputed institute Serampore Girls' College; for her valuable permission for this program to be arranged. Dr. Madhusree Halder from Deptt. Of Botany, Ms. Madhurima Boral form Deptt. Of Chemistry and Dr. Ananya Ali from Deptt. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Ms Soumi Dey as lab attendant will be always remembered as that became pivotal to the path of this journey. Also, the faculties and members form several Departments of Sciences were quite helpful in solving several technical and official details that finally made this program possible to be organized.

Students took part enthusiastically form both the semester and found it was quite interesting to have views of different subjects from the other field experts. These types of cross discussion allowed them to understand the integrity of scientific views and ideas. Students from junior semester who were not been able to attend this program due to several constraints during COVID pandemic situation, expressed their hearty eagerness to take part actively in such program in future.

Department of Biological Sciences are in absolute confidence that in near future they will be able to launch more such program to quench the thirst of their curiosity.

Photos from the event



Abhishek
Department of Botany
Serampore Girls' College
Serampore, Hooghly

Ananyadevi
Department of Zoology
Serampore Girls' College
Serampore, Hooghly



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E-mail : science@seramporegirlscollege.org • sqc_scdept@gmail.com

Ref. No.

Date 10/12/2021

NOTICE

All the students of Biological Sciences are requested to take part in intra college Quiz, arranged by the departments of Life Sciences on 17th December, 2021 from 11:30 a.m. onwards. Participations of all students are being highly encouraged. Topics for the quiz will be mostly till 12th standard biology and chemistry knowledge.



Department of Botany
Serampore Girls' College

Department of Botany
Serampore Girl's College
Serampore, Hooghly



Department of Chemistry
Serampore Girls' College

Department of Chemistry
Serampore Girl's College
Serampore, Hooghly



Department of Zoology
Serampore Girls' College

Department of Zoology
Serampore Girl's College
Serampore, Hooghly

Serampore Girls' College

Departments Of Biological Sciences

Report of Quiz Program 2021-22.

Date – 17/12/2021

On 17th of December, 2021; the faculties of Departments of biological sciences organized an Quiz Program for all students of biological sciences' departments to encourage them more in activities, associated to outside syllabus. At very first we would like to express our sincere gratitude towards Dr Soma Roy, honourable Principal of our well reputed institute Serampore Girls' College; for her valuable permission for this program to be arranged. Dr. Madhusree Halder from Deptt. Of Botany, Ms. Madhurima Boral from Deptt. Of Chemistry and Dr. Ananya AE from Deptt. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Ms Soumi Dey as lab attendant will be always remembered as that became pivotal to the path of this journey. Also, the faculties and members from several Departments of Sciences were quite helpful in solving several technical and official details that finally made this program possible to be organized.

Students took part enthusiastically in the program and played very well. All the students were grouped into four different sets named as Vidyasagar group, Vivekananda group, Nibedita group and Pritilata group. Total program took place in two rounds and based on final scoring of both the parts; we decided the victorious group. The group named Pritilata scored highest i.e. 99 among all and announced as the topper and also, we declared the runner up group which was Vivekananda group which scored 76. All the participants were allowed to enjoy some lozenges during the active participation and the winner and runner up group was awarded with a pen as small token of gift.

All the member of Department of Biological Sciences will surely organize more such programs to encourage students' involvement towards out of syllabus participations.

Nibedita

Department of Chemistry
Serampore Girls' College
Serampore, Hooghly

Ananya

Department of Zoology
Serampore Girls' College
Serampore, Hooghly

Madhusree

Department of Botany
Serampore Girls' College
Serampore, Hooghly

Teachers' Signature

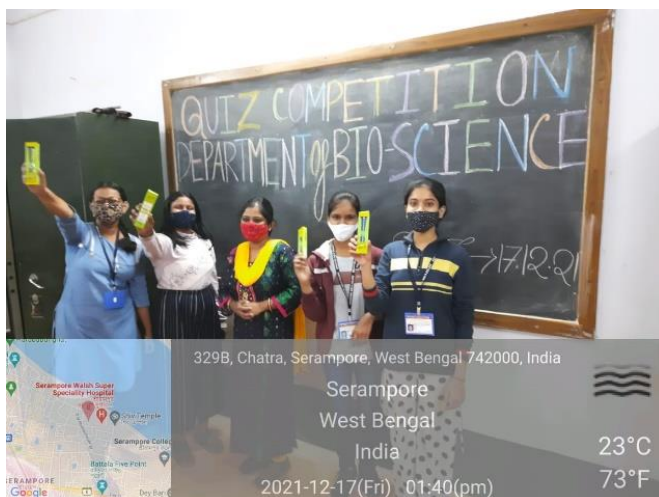
Photos from the event



Signature

Risal
 Department of Chemistry
 Serampore Girls College
 Serampore, Ho...

Ananyade
 Department of Biology
 Serampore Girls College
 Serampore, West Bengal



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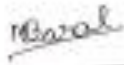
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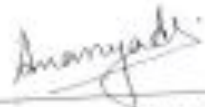
Date: 14/12/2021

NOTICE

Departments of bio-Sciences have arranged a Parent Teacher Meeting on 22nd December, 2021; from 12:30 p.m. - 2:30 p.m. Students of semester 1, are being requested to attend the program along with their parents, positively at the mentioned time. Dr. Madhusree Halder, Dept. of Botany; Ms. Madhurima Boral, Dept. of Chemistry; Dr. Ananya Ali, Dept. of Zoology will host the program, jointly.


Department of Botany,
Serampore Girls' College


Department of Chemistry,
Serampore Girls' College


Department of Zoology,
Serampore Girls' College

Department of Botany
Serampore Girl's College
Serampore, Hooghly

Department of Chemistry
Serampore Girl's College
Serampore, Hooghly

Department of Zoology
Serampore Girl's College
Serampore, Hooghly

Serampore Girls' College

Departments Of Biological Sciences

Report of Parent Teacher Meeting Program 2021-22.

Date – 20/12/2021

On 20th of December, 2021; the faculties of Departments of biological sciences organized an online Parent Teacher Meeting (PTM) Program for first semester students to discuss about their performances in earlier taken several class tests. At very first we would like to express our sincere gratitude towards Dr Soma Roy, honourable Principal of our well reputed institute Serampore Girls' College; for her valuable permission for this program to be arranged. Dr. Madhusree Halder from Deptt. Of Botany, Ms. Madhurima Boral form Deptt. Of Chemistry and Dr. Ananya Ali from Deptt. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Ms Soumi Dey as lab attendant will be always remembered as that became pivotal to the path of this journey. Also, the faculties and members form several Departments of Sciences were quite helpful in solving several technical and official details that finally made this program possible to be organized.

Students and their parents took part enthusiastically and we the faculty members one by one discussed the till then performances of students in class tests. Also, we tried to find out how could the institute and faculties help students who have not done too well in class tests. Most of the parents and students were agreeing that the low achievements were mostly due to their insincerities and promised to score better in exams in coming days for sure. One student, from Secraphull, reported it was hard for her to attend class at 9:45 am. At mostly all the parents were quite happy by departments teaching methods and not complained anything severe that can be reported.

All the member of Department of Biological Sciences will surely concentrate to improve farther and are hopeful that in coming days any problem, if come, will surely be sorted out as much as possible to upgrade the teaching learning process for the students.

Madhusree Halder
Department of Chemistry
Serampore Girl's College
Serampore, Hooghly

Madhusree Halder
Department of Botany
Serampore Girl's College
Serampore, Hooghly

Ananya Ali
Department of Zoology
Serampore Girl's College
Serampore, Hooghly

Teachers' Signature

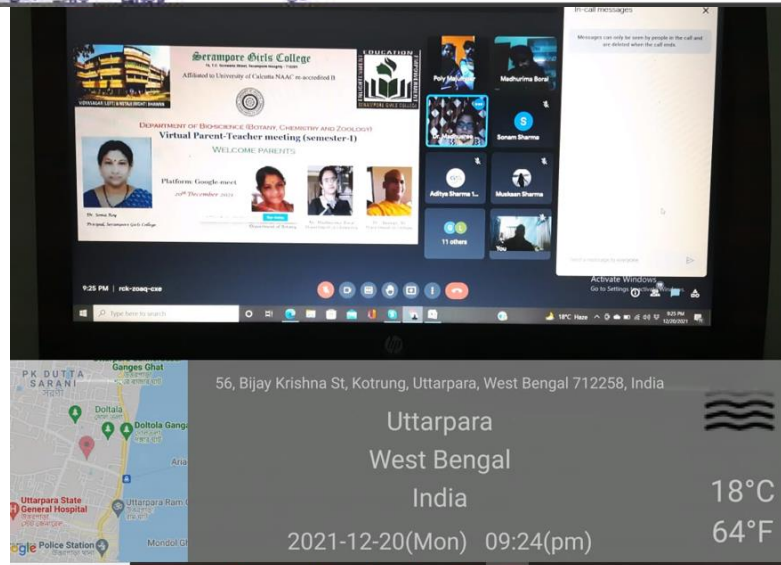
Photos from the event



M. Aditya
Department of Botany
Serampore Girls' College
Hooghly

M. Baral
Department of Chemistry
Serampore Girls' College
Serampore

Ananyadipta
Department of Zoology
Serampore Girls' College
Serampore, Hooghly



POSTER COMPETITION ON 21/12/2021

Serampore Girls' College

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Ref. No. _____

Date 10/12/2021

NOTICE

All the students of Biological Sciences are requested to take part in intra college poster seminar, arranged by the departments of Life Sciences on 21st December, 2021 from 11:30 a.m. onwards. Participations of final year students are being highly encouraged, though the same is being expected from the other semesters also. Topics for the posters are being mentioned below. Students need to choose any one of them and make a poster based on that.

- 1) Spreading knowledge of herbal medicine and preservation of medicinal plants.
- 2) Chemistry of Diamond.
- 3) Prevention(s) of Infectious Diseases.



Department of Botany
Serampore Girls' College

Department of Botany
Serampore Girls' College
Serampore, Hooghly



Department of Chemistry
Serampore Girls' College

Department of Chemistry
Serampore Girls' College
Serampore, Hooghly



Department of Zoology
Serampore Girls' College

Department of Zoology
Serampore Girls' College
Serampore, Hooghly

Serampore Girls' College

Departments Of Biological Sciences

Report of Poster Competition Program 2021-22.

Date – 21/12/2021

On 21st of December, 2021; the faculties of Departments of biological sciences organized a Poster Competition Program for all students of biological sciences' departments to encourage them more in activities, associated to outside syllabus. At very first we would like to express our sincere gratitude towards Dr Somn Roy, honourable Principal of our well reputed institute Serampore Girls' College; for her valuable permission for this program to be arranged. Dr. Madhusree Halder from Deptt. Of Botany, Ms. Madhurima Boral form Deptt. Of Chemistry and Dr. Ananya Ali from Deptt. Of Zoology worked harmoniously to arrange and assemble all the weeks regarding this program to take place. Generous, valuable and lively helps from Ms Soumi Dey as lab attendant will be always remembered as that became pivotal to the path of this journey. Also, the faculties and members form several Departments of Sciences were quite helpful in solving several technical and official details that finally made this program possible to be organized.

Students took part enthusiastically in the program and presented their views as poster on the given topics viz. 1) Spreading knowledge of herbal medicine and preservation of medicinal plant, 2) Chemistry of Diamond, 3) Prevention(s) of Infectious Diseases. A good amount hard work and well-organized utilization of merits have been noticed among the participants from all the semesters. Honourable judges from Departments of Sciences viz. Dr. Mayurakshi Nag, Ms Moumita Ghosal and Mrs. Nabamita Ghosh (Nath) gave their valuable input to the students for their improvement during poster making and presentations. Based on their judgment and scoring we finalized the winner's name i.e., Muskaan Sharma, as highest scorer (29/45), from first semester who left the marks of her intelligence, hard work and communication skills via this program too well.

All the member of Department of Biological Sciences will surely organize more such programs to encourage students' involvement towards out of syllabus participations.

M. Boral
Department of Chemistry
Serampore Girl's College
Serampore, Hooghly

M. Halder
Department of Botany
Serampore Girl's College
Serampore, Hooghly

A. Ali
Department of Zoology
Serampore Girl's College
Serampore, Hooghly

Teachers' Signature

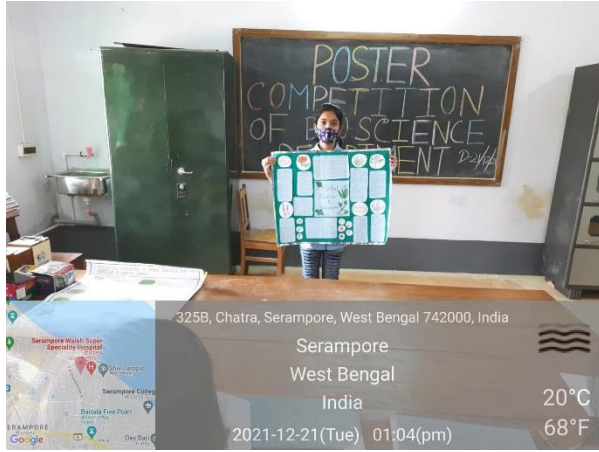
Photos from the event



Arindam
Department of Botany
Serampore Girls' College
Serampore, Hooghly

Abir
Department of Chemistry
Serampore Girls' College
Serampore, Hooghly

Ananyadi
Department of Zoology
Serampore Girls' College
Serampore, Hooghly



RICE FIELD VISIT ON 21/05/2022

PH: (033) 26527850 (Principal)

Serampore Girls' College

(Estd.: 1981)
Re-Accredited by NAAC : Grade B (2nd Cycle)
13, T. C. GOSWAMI STREET, SERAMPORE, HOOGHLY. PIN-712 201, WEST BENGAL.
E-mail : serampore_girls_college@yahoo.co.in
Website : www.seramporegirlscollege.org

Ref. No.

Date 16/02/2022

NOTICE

There will be a field study for Bio- science students at Rice research station, Chinsurah, organized by Department of Botany, Serampore Girls' College on 21.02.2022 (Monday). All students are instructed to participate in the field visit.

আগামী ২১.০২.২০২২ (সোমবার) উদ্ভিদবিদ্যা বিভাগ এর পক্ষ থেকে চুঁচুড়া আইস রিসার্চ স্টেশনে একটি ক্ষেত পরিদর্শন আয়োজন করা হয়েছে। উক্ত দিনে জীবন বিজ্ঞান শাখার সমস্ত ছাত্রীদের ঐ ক্ষেত পরিদর্শনে অংশ গ্রহন করতে নির্দেশ দেওয়া হচ্ছে।

Handwritten signature
Department of Botany
Serampore Girl's College
Serampore, Hooghly

Handwritten signature
Department of Mathematics

Serampore Girls' College
Department of Botany
Field study 2022
Rice Research Station, Chinsurah, Hooghly

Students participated in the field work

Date: 21/02/2022

Serial Number	Name of the student	Semester	Signature
1.	Hena Farheen	VI	Hena Farheen
2.	Aditi Sinha Roy	VI	Aditi Sinha Roy
3.	Keya Bera	VI	Keya Bera
4.	Neha Roy	VI	Neha Roy
5.	Salaghna Dey	VI	Salaghna Dey
6.	Nisha Kumari	VI	NB
7.	Alifa Tabassum	VI	Alifa Tabassum
8.	Sukanya Roy	VI	Sukanya Roy
9.	Supriya Bhattacharya	VI	Supriya Bhattacharya
10.	Ishita Santra	VI	Ishita Santra
11.	Simran Shaw	VI	Simran Shaw
12.	Bushra Afzal	VI	AB
13.	Ananya Das	IV	Ananya Das
14.	June Ghosh	IV	June Ghosh
15.	Mahima Chalki	IV	Mahima Chalki
16.	Paranita Bera	IV	Paranita Bera
17.	Shreetha Guha	IV	Shreetha Guha
18.	Jayashri Debnath	IV	Jayashri Debnath
19.	Prithi Maji	IV	Prithi Maji

Signature of Faculty in-charge
(Dr. MADHUSREE HALDER)

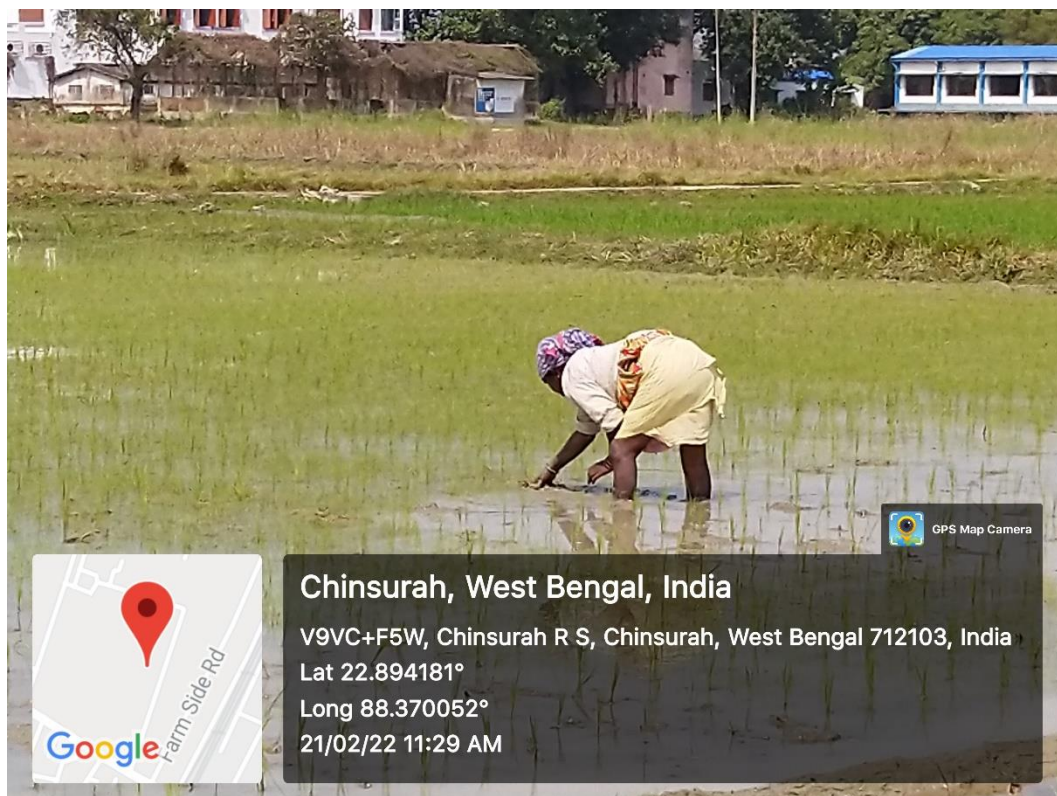
Department of Botany
Serampore Girls' College
Serampore, Hooghly

21.	Ankita Dholey	I	Ankita Dholey
22.	Pooja Majumdar	I	Pooja Majumdar
23.	Saparna Adhya	I	Saparna Adhya
24.	Apti Ghosh	I	Apti Ghosh
25.	Sonal Singh	I	Sonal Singh
26.	Geetika Ghosh	I	Geetika Ghosh
27.	Ranjini Adhikary	I	Ranjini Adhikary
28.	Suhita Bhattacharyya	I	Suhita Bhattacharyya
29.	Mouli Koley	I	Mouli Koley
30.	Reetambhara Ghosh	I	Reetambhara Ghosh
31.	Muskan Sharma	I	Muskan Sharma
32.	Sonam Kumari Sharma	I	All
33.	Pallavi Tripathi	I	AB
34.	Lipika Soren	I	Lipika Soren
35.	Samia Qamar	I	Samia Qamar
36.	Soheli Talukder	I	Soheli Talukder
37.	Sudeshna Dey	I	Sudeshna Dey
38.	Tanya Saha	I	AB

Signature of Faculty in-charge
(Dr. MADHUSREE HALDER)

Department of Botany
Serampore Girls' College
Serampore, Hooghly







EDUCATION
EMPOWERMENT
SERAMPORE GIRLS' COLLEGE

Serampore Girls' College

13, T. C. GOSWAMI STREET,
SERAMPORE, HOOGHLY

**EARTH DAY CELEBRATION
and SCIENCE EXHIBITION**

Date : 22nd April, 2022

Organized by : Department of Geography & Science Departments
in Collaboration with IQAC

Serampore Girls' College

(Affiliated to the University of Calcutta)

13, T.C. Goswami Street, Serampore, Hooghly - 712201, West Bengal, India

Earth Day Celebration & Science Exhibition

Organized by
Science Departments
&
Department of Geography
in
Collaboration with IQAC

Date: 22nd April, 2022

Programme Schedule

10am to 10:05am	Inauguration of Science Exhibition
10:05am to 12pm	Science Exhibition
12pm to 12:15pm	Inauguration Programme
12:15pm to 12:25pm	Welcome Speech by Principal
12:25pm to 12:30pm	Significance of the Day by IQAC Co-coordinator
12:30pm to 1:15pm	Earth Day Celebration Lecture 1 by Mr. Umashankar Mandal (Mangrove Man), Socio-Ecologist, Sundarban Topic: Socio-Ecological Balance in Sundarban: A Field Based Experiences
1:15pm to 2pm	Earth Day Celebration Lecture 2 by Prof. Jayanta Kumar Biswas, Department of Ecological Studies, University of Kalyani Topic: Healing our Ailing Earth: From Crisis to Cure
2:00pm to 2:05pm	Vote of Thanks by Dr. Mayurakshi Nag



Howrah, West Bengal, India
 350E, Chatra, Serampore, West Bengal 742000, India
 Lat 22.755599°
 Long 88.345581°
 22/04/22 11:59 AM



Howrah, West Bengal, India
 100D, Chatra, Serampore, West Bengal 742000, India
 Lat 22.753872°
 Long 88.342822°
 22/04/22 12:44 PM



Howrah, West Bengal, India
 350E, Chatra, Serampore, West Bengal 742000, India
 Lat 22.755599°
 Long 88.345583°
 22/04/22 11:12 AM



Howrah, West Bengal, India
 353D, Chatra, Serampore, West Bengal 742000, India
 Lat 22.755855°
 Long 88.344875°
 22/04/22 11:20 AM

Local field excursion 2022: SEM 2

Serampore Girls' College
(Estd. : 1981)
Accredited by NAAC

13, T. C. GOSWAMI STREET, SERAMPORE, HOOGHLY, PIN-712 201, WEST BENGAL.
Ph: (033) 2652 9334 • (033) 26527850 (Principal) • 26623723 (Office) • 2652-0098
E-mail : science@seramporegirlscollege.org • sgc.sdept@gmail.com

DEPARTMENT OF BIO-SCIENCE

Ref. No. Date... 13/05/2022

NOTICE

All the students of second semester are hereby informed that there is a local field excursion at Serampore locality on 19/05/2022 Thursday. All students are instructed to attend the field excursion. You must carry field note book, pencil, scissor, blade, old news paper, pressing board, rope and bag.

Madhura Haldar
13.05.2022

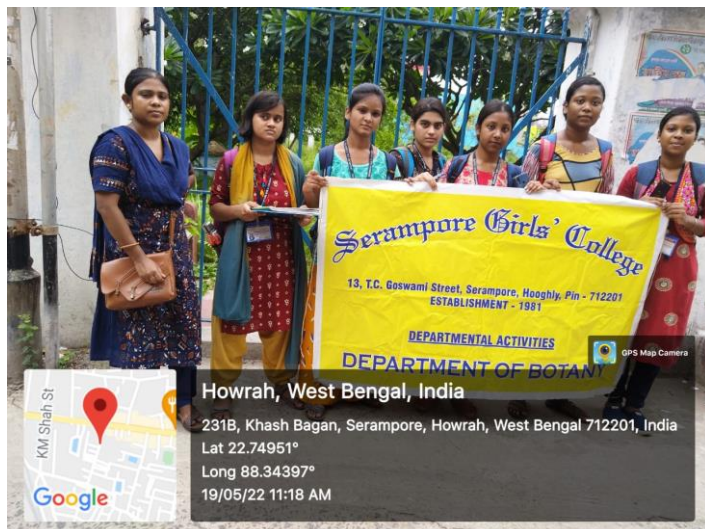
Signature of Teacher (s)

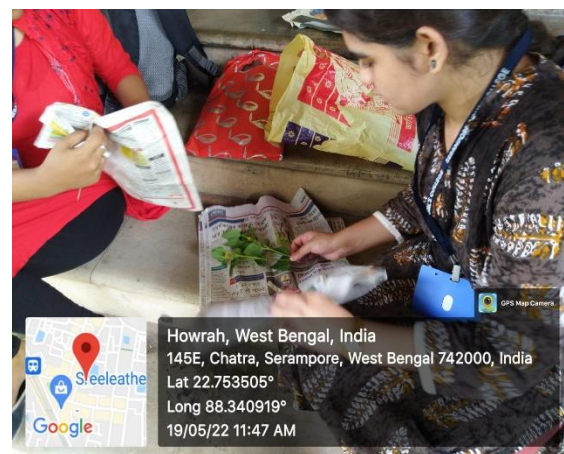
SERAMPORE GIRLS' COLLEGE
Attendance in Local field excursion 2022
Date: 19/05/2022

Sl. No	Name of the Student	University roll number	Signature
1.	Sudeshma Dey		Sudeshma Dey
2.	Apti Ghosh		AB
3.	Garpi Bharati		AB
4.	Lipika Soren		Lipika Soren
5.	Mouli Koley		Mouli Koley
6.	Muskan Sharma		AB
7.	Sobeli Tudu		Sobeli Tudu
8.	Pallavi Tiwari		AB
9.	Poly Majumdar		AB
10.	Ranjini Adhikari		Ranjini Adhikari
11.	Sonal Singh		Sonal Singh
12.	Sonam Kumari Sharma		AB
13.	Reetambhara Ghosh		Reetambhara Ghosh
14.	Sania Qamar		Sania Qamar
15.	Suhita Bhattacharyya		Suhita Bhattacharyya
16.	Ankita Dholey		AB
17.	Tanya Shah		AB
18.	Suparna Adhya		Suparna Adhya

Madhura Haldar

Photos of the event





Signature of the faculty

(Dr. Madhusree Halder)