

# **Departmental reports 2022-2023**

## **Department of zoology**

# 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

Departments of Biological Sciences

Ref. No. ....


Date: 08/05/2023


## NOTICE

All the students of second (2<sup>nd</sup>) semester are hereby being notified that a/an Open House program has been arranged by Botany, Chemistry and Zoology department(s) on 10/05/2023 (Wednesday day).

Thus, all are being requested to be present on that day and take part enthusiastically to above mentioned program.

  
Department of Chemistry  
Serampore Girls' College  
Serampore, Hooghly

  
Department of Botany  
Serampore Girls' College  
Serampore, Hooghly

  
Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly

Departments of Bio-Sciences  
Serampore Girls' College

# Serampore Girls' College

## Departments Of Biological Sciences


Report of Open House Program 2022-23.


Date – 10/05/2023


On 10<sup>th</sup> May, 2023; 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 Dept. Of Botany, Dr Ipsita Chakroborty and Madhusree Mal form Dept. Of Chemistry and Dr. Ananya Ali from Dept. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Tanu di as lab attendant will be always remembered as that became pivotal to the path of this journey.

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 felt the classrooms are in need of upgradation like better black boards, well-functioning 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.

  
Department of Chemistry  
Serampore Girl's College  
Serampore, Hooghly

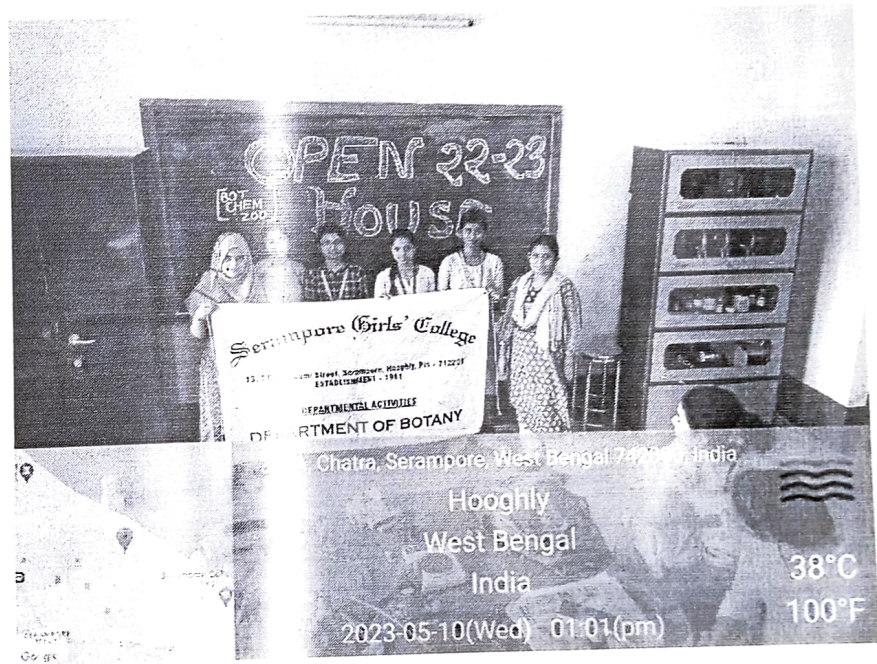
  
Department of Botany  
Serampore Girl's College  
Serampore, Hooghly

  
Department of Zoology  
Serampore Girl's College  
Serampore, Hooghly

Teachers' Signature



# Photos from the event



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

*D. D.*  
Department of Chemistry  
Serampore Girl's College  
Serampore, Hooghly

*S.S.*  
Department of Zoology  
Serampore Girl's College  
Serampore, Hooghly



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Departments of Biological Sciences


Ref No. ....

Date 15/05/23

## NOTICE

All the students of Second (2<sup>nd</sup>) semester are hereby being notified that a/an Parent teacher meeting (PTM) program has been arranged by Botany, Chemistry & Zoology department(s) on 18/05/2023 (Thurs day).

Thus, all are being requested to be present on that day and take part enthusiastically to above mentioned program.

  
Department of Chemistry  
Serampore Girls' College  
Serampore, Hooghly

Asides  
Department of Botany  
Serampore Girls' College  
Serampore, Hooghly

Ananyadeb  
Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly

# Serampore Girls' College

## Departments Of Biological Sciences


Report of Parent Teacher Meeting Program 2022-23 (Even sem), 2<sup>nd</sup> Sem


Date – 18/05/2023

On 18<sup>th</sup> of May, 2023; the faculties of Departments of biological sciences organized a Parent Teacher Meeting (PTM) Program for second semester students to discuss about their performances in earlier taken Continuous Internal Assessment and class-attendance . 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, Dr. Ipsita Chakroborty and Madhusree Mal form Dept. Of Chemistry and Dr. Ananya Ali from Dept. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Tanu di as lab attendant will be always remembered as that became pivotal to the path of this journey.

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. 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.

  
Department of Chemistry  
Serampore Girls' College  
Serampore, Hooghly

  
Department of Botany  
Serampore Girls' College  
Serampore, Hooghly

  
Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly

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Teachers' Signature

Photos from the event



*M. H. Das*  
Department of Botany  
Serampore Girls' College  
Serampore, Hooghly

*D. Das*  
Department of Chemistry  
Serampore Girls' College  
Serampore, Hooghly

*S. Das*  
Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly



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Departments of Biological Sciences


Ref. No. ....


Date. 06/05/2023


## NOTICE

All the students of Bio Sciences, all (2, 4 & 6)  
semester are hereby being notified that a/an  
Quiz Competition program has been arranged by  
all the department(s) on  
08<sup>th</sup> May, 2023 ( Monday).

Thus, all are being requested to be present on that day and take part enthusiastically to above mentioned program.

  
Department of Chemistry  
Serampore Girls' College  
Serampore, Hooghly

  
Department of Botany  
Serampore Girls' College  
Serampore, Hooghly

  
Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly

Departments of Bio-Sciences  
Serampore Girls' College

# Serampore Girls' College

## Departments Of Biological Sciences


Report of Quiz Program 2022-23.


Date – 08/05/2023


On 08<sup>th</sup> of May, 2022; 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 Dept. Of Botany, Dr. Ipsita Chakroborty and Madhusree Mal form Dept. Of Chemistry and Dr. Ananya Ali from Dept. Of Zoology worked harmoniously to arrange and assemble all the works regarding this program to take place. Generous, valuable and lively helps from Tanu di as lab attendant will be always remembered as that became pivotal to the path of this journey.

Students took part enthusiastically in the program and played very well. All the students were grouped into different sets, chosen arbitrarily. Total program took place in two rounds and based on final scoring of both the parts; we decided the victorious group. All the participants were allowed to enjoy some lozenges during the active participation.

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

  
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

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Teachers' Signature

# Photos from the event



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

*AS*  
Department of Zoology  
Serampore Girl's College  
Serampore, Hooghly

*PS*  
Department of Chemistry  
Serampore Girl's College  
Serampore, Hooghly



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Departments of Biological Sciences

Ref. No. ....

Date. 12/06/2023

Deptt. of Zoology

## NOTICE

All the students of fourth (4<sup>th</sup>) semester  
semester are hereby being notified that a/an  
field visit to a museum program has been arranged by  
Zoology department(\$ ) on  
15/06/2023 ( Thurs day ).

Thus, all are being requested to be present on that day and take part enthusiastically to above mentioned program.

N.B. : All are being requested to submit 150/-, along with their name to Dr. Madhuree Halder, before the tour date for sure.

Ananya

Department of Zoology  
Serampore Girl's College  
Serampore, Hooghly

Department of Biological Sciences  
Serampore Girls' College

# Serampore Girls' College

Department(s) of Zoology

Attendance sheet

Program: Visit to a natural history Museum

Date: 15/06/2023

Sl No.	Name	College roll no.	Paid	Sign	Contact no.		
1	Lipika Soren	21349	150/-	Lipika Soren	9836578072		
2	Sania Daman	21768	150/-	Sania Daman	6290347320		
3	Mouli Koley	21352	150	Mouli Koley	9748893670		
4	Saheli Tudu	21363	150/-	Saheli Tudu	8609045121		
5	Sudeshma Dey	21370	150	Sudeshma Dey	9193354114		
6	Sonal Singh	21367	150/-	Sonal Singh	6291651301		
7	Pallavi Tiwari	21356	150/-	Pallavi Tiwari	7250190992		
8	Reetambhara Ghosh	21361	150/-	Reetambhara Ghosh	6291438579		
9	Suhita Bhattacharyya	21371	150/-	Suhita Bhattacharyya	8585068074		
10							

Ananyadi

Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly

Andis

# Serampore Girls' College

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Ref. No. ....

Date. 15/06/2023

To  
The Education Officer,  
The Indian Museum,  
Kolkata

Respected Sir,

This is to inform you that 10 (ten) students of fourth semester from the Department of Zoology, Serampore Girls' College, along with two teachers will visit the Museum for educational purpose of their genetics and evolutionary biology studies. Some of them will visit the museum for the first time as they are from remote places.

Please arrange some help through the guidance from your well-trained resources. We are expressing our hearty gratitude for your generous help in advance.

Dated: 15/06/2023

Yours' Sincerely,

Serampore

for M. B. O., Kolkata  
Education Unit  
Dated: 15/06/2023  
Smt. P. Roy

Smt. Roy,  
Principal/Teacher in Charge  
Serampore Girls' College

Principal  
Serampore Girls' College  
Serampore, Hooghly



# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 1; 6<sup>th</sup> Semester, 2023

Full marks (20 + 20) Duration: (1hour + 1 hour) Date: 28/03/2023

Time: 01:30pm-03:30pm

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Paper: Ecology and wild life biology

Paper Code: ZOOG-DSE-B-6-2-TH

Q1. Answer any five.

2 \* 5 = 10

- What are the biotic and abiotic components of ecosystem? / Ecosystem এর biotic and abiotic components বলতে কী বোঝো ?
- Differentiate between autecology and synecology. / autecology and synecology র পার্থক্য লেখো।
- What do you mean by limiting factors? / limiting factors বলতে কী বোঝো ?
- What is Biosphere? / Biosphere কী?
- What is ecosystem? / Ecosystem কী?
- What is population? / Population কী?
- What is community? / Community কী?

Q2. Answer any one.

1 \* 10 = 10

- Write short notes on combined concept of limiting factors. Write short notes on interactions of ecological factors. / combined concept of limiting factors বিষয়ে টীকা লেখো। interactions of ecological factors এর বিষয়ে টীকা লেখো। 5 + 5 = 10
- How Temperature affects the body length of organisms? Describe different levels of ecological organization. / উষ্ণতা কীভাবে শারীরিক দৈর্ঘ্যে প্রভাব ফেলে? ecological organization এর বিভিন্ন স্তরগুলি বিষয়ে লেখো। 5 + 5 = 10

Paper: Medical Diagnosis

Paper Code: ZOOG-SEC-B-6-4-TH

Q1. Answer any five.

2 \* 5 = 10

- What is differential Leucocyte count (DLC)? / differential Leucocyte count (DLC) কী?
- What do you mean by haematocrit value ? / haematocrit value বলতে কী বোঝো ?
- What is the full form of PCV? / PCV র পুরো নাম লেখো।
- What is normal hemoglobin value in female? normal hemoglobin value in female কত?
- Write down the functions of RBC and platelets. / RBC and platelets এর কাজ লেখো।

# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 1; 4<sup>TH</sup> Semester, 2023

Full marks 20 Duration: 1hour Date: 29/03/2023 Time: 10:30 am – 12:30 pm

Paper: Genetics and Evolutionary biology Paper Code: ZOOG-CC-4-4-TH

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Q1. Answer any five. / যেকোনো পাঁচটির উত্তর দাও। 2 \* 5 = 10

- i) What is test cross? / টেস্ট ক্রস কাকে বলে?
- ii) What is gene pool? / জিন পুল কাকে বলে?
- iii) What is lethal gene? / লেথাল জিন কী?
- iv) What is incomplete dominance? / অসম্পূর্ণ প্রকটতা কী?
- v) What do you mean by multiple allele? / মাল্টিপল অ্যালিল কী?
- vi) Differentiate between genotype and phenotype. / জিনোটাইপ ও ফেনোটাইপ এর মধ্যে পার্থক্য লেখো।
- vii) What do you mean by allele and locus? / অ্যালিল ও লোকাস বলতে কী বোঝো?

Q2. Answer any one. / যেকোনো একটির উত্তর দাও। 1 \* 10 = 10

- i) Write short notes on Chromosomal theory of inheritance! Clearly state the Mendel's laws of inheritance by mentioning the experiment from which they have been derived! / বংশগতির ক্রোমোজোমীয় তত্ত্বটি লেখো। Mendel এর বংশগতির সূত্রগুলি লেখো এবং কোন পরীক্ষা থেকে সেগুলি পাওয়া যায় তা উল্লেখ করো। 5 + 5 = 10

- ii) What will be the phenotype(s), as to blood groups, of offspring for the crossing of following genotypes / নিম্নের ক্রসগুলির ফলে উৎপন্ন অপত্যের ব্লাড গ্রুপ কী কী হবে দেখাও :

$I^A i \times I^B i$ ;  $I^A I^B \times I^B i$ ;  $I^B i \times I^B i$ .

10





# Serampore Girls' College

SERAMPORE, HOOGHLY

B.A/B.Sc. <sup>✓</sup> 4<sup>th</sup> Sem CIA 1 Examination, 2023

Subject : ZOO 6 CC4

Full Marks : 20

21

13 classes

Roll No.	Paper	Roll No.	Paper	Roll No.	Paper	Roll No.	Paper
343	CC4				15.4%		
349	12				61.5%		
352	13				30.8%		
353	12				46.2%	← SL	
356	04				61.5%		
361	06				53.8%		
363	09				30.8%		
367	13				38.5%		
370	11				69.2%		
371	17				53.8%		
768	06				69.2%		

Date : 01/04/2023

Signature of the Examiner  
 Department of Zoology  
 Serampore Girls' College  
 Serampore, Hooghly



# SERAMPORE GIRLS' COLLEGE

Continuous Internal Assessment (CIA 1) September 2022 for 3rd, 5th semester

	11:00am-12:00pm	12:30-1:30 pm	2:00-3:00pm
07-09-2022 Wednesday	3rd sem Hons CC5	3th Sem General Paper CC3/GE3 - English, Bengali, Political Science, , Economics, Physics, Electronics, Botany	3th Sem General Paper CC3/GE3 History, Education, Physical Educatiuon, Zoology, Mathematics
	5th sem Hons CC11	5th sem Hons DSE A1	5th Sem General DSE - English, Bengali, Political Science, , Economics, Physics, Electronics, Botany
08-09-2022 Thursday	3rd sem Hons CC6	3rd sem Hons SEC Paper	Philosophy General 3rd sem-CC3/GE3, 5th sem DSE
	5th sem Hons CC12	5th sem Hons DSE B1	5th Sem General DSE - History, Education, Physical Educatiuon, Zoology, Mathematics
09-09-2022 Friday	3rd sem Hons CC7	3th Sem General Paper CC3/GE3 - Geography, Sociology, Sanskrit, Hindi, Urdu, Music, Chemistry, Computer Science	3RD Sem General SEC Paper
	5th sem Hons SEC	5th Sem General Paper DSE - Geography, Sociology, Sanskrit, Hindi, Urdu, Music, Chemistry, Computer Science	5th Sem General SEC Paper  Uttam Halder 31/8/22
	Principal		Convener Routine Committee




# SERAMPORE GIRLS COLLEGE

## CONTINUES INTERNAL EVALUATION (CIE) EXAMINATION

DATE: 7 - 9 SEPTEMBER 2022

### INSTRUCTIONS FOR STUDENTS

1. Students are informed to reach the exam hall 15 minutes prior to the exam..
2. Updated College ID card is mandatory to attend the exam.
3. Mobile phones should be kept in switched off mode inside the bag.
4. Students should write name, college roll no, <sup>CU ROLL, REGISTRATION</sup> subject, paper name clearly at the top of the answer sheet.
5. Any malpractice inside the exam hall will result in cancellation of the exam.
6. Ensure any electronic device should not be with the student during the exam (except Calculator)

  
Signature of Exam Convenor 5/9. 22

  
Signature of Principal 5/9/22

# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 1, 1<sup>ST</sup> Semester, 2022

Paper: Animal Diversity

Paper Code: ZOOG-CC-1-1-TH

Full marks 20

Duration: 1 hour

Date: 29/11/2022

Time: 2:30-3:30 pm

Read and follow all the instructions, carefully before answering. Apply example(s) / diagram(s) / chart(s) / table(s) / flowchart(s) / graph(s) / equation(s) / illustrative work(s) etc. to enhance the quality of your answer at per your own understanding.

Q1. Answer any five.

2 \* 5 = 10

- i) What do you mean by canal system? / canal system বলতে কী বোঝো?
- ii) Distinguish between ostia and osculum. / ostia and osculum এর মধ্যে পার্থক্য লেখো।
- iii) What do you mean by 'Gravid proglotids'? / 'Gravid proglotids' বলতে কী বোঝো?
- iv) Write down the names of primary host and secondary host of *T. solium*/ *T. solium* (ফিতাকৃমির) প্রাথমিক ও গৌণ পোষকের নাম লেখো?
- v) What are ionocytes? What is their function? / ionocytes কী? উহাদের কাজ লেখো।
- vi) Name an endocrine gland its hormone that helps fishes in osmoregulation/ মাছের osmoregulation এ সাহায্যকারী একটি অন্তঃস্ফরা গ্রন্থি ও উহা নিঃসৃত হরমোনটির নাম লেখো।
- vii) Differences between the teeth of poisonous and non-poisonous snake. Or, What is fang? / বিষাক্ত ও নির্বিষ সাপের দাঁতের পার্থক্য লেখো অথবা, বিষদাঁত কী?
- viii) Name one poisonous and one non-poisonous snake. / একটি বিষাক্ত ও একটি নির্বিষ সাপের নাম লেখো।

Q2. Answer any one.

1 \* 10 = 10

- i) Classification of phylum Platyhelminthes. Describe the biting mechanism of poisonous snake with suitable diagram. / Platyhelminthes পর্বের শ্রেণিবিন্যাস করণ করো। বিষাক্ত সাপের দংশন পদ্ধতি বর্ণনা করো। 5+5 = 10
- ii) Briefly describe the classification Reptilia. Describe the canal system of Sycon sp with suitable diagram./ Reptilia র শ্রেণিবিন্যাস করণ করো। Sycon sp এর নালিকা তন্ত্র, সচিত্র বর্ণনা করো। 5 + 5 = 10

# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 3<sup>rd</sup> Semester, 2022

Paper: Apiculture

Paper Code: ZOOG-SEC-A-3-1-TH

Full marks 20

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Q1. Answer any five.

2 \* 5 = 10

- i) What is eusociality of honey bee? / মৌমাছির eusociality বলতে কী বোঝায়?
- ii) How would you distinguish between worker bee and queen bee? / কর্মী মৌমাছি ও রানী মৌমাছির মধ্যে পার্থক্য কীভাবে করবে।
- iii) Why is honey bee, regarded as polymorphic species. / মৌমাছিকে polymorphic species বলা হয় কেন?
- iv) Why is drone, haploid? / drone মৌমাছি haploid হয় কেন?
- v) Role of drone in a bee colony/hive? মৌচাকে পুরুষ (drone) মৌমাছির ভূমিকা লেখো।
- vi) What is 'Nuptial flight'? / 'বৈবাহিক উড্ডয়ন' কাকে বলে?
- vii) What is 'Royal jelly'? / 'রাজকীয় জেলি' কী?
- viii) What is 'Bee bread'? / "মৌ রুটি" কী?

Q2. Answer any one.

1 \* 10 = 10

- i) Write down the taxonomic position of honey bee in animal kingdom. Describe the Life cycle of honey bee, with suitable diagram. / প্রাণী জগতে মৌমাছির শ্রেণীবিন্যাস গত অবস্থান লেখো। মৌমাছির জীবন চক্র বর্ণনা করো, উপযুক্ত ছবি সহযোগে। 5 + 5 = 10
- ii) Write short notes on: Structure of Bee hive. Compare between queen, worker and drone bees. / মৌচাকের গঠনের উপর টীকা লেখো। রানী, কর্মী ও পুরুষ মৌমাছির মধ্যে বর্ণনা করো। 5 + 5 = 10



# Serampore Girls' College

SERAMPORE, HOOGHLY

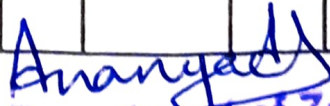
B.A/B.Sc. 5<sup>th</sup> Sem CIE 1 Examination, 2022

Subject : ZOOLOGY DSE A1

Full Marks : 20

Roll No.	Paper DSE	Roll No.	Paper Attendance	Roll No.	Paper	Roll No.	Paper
688	AB		31.0%				
691	AB		0%				
692	12		62.0%				
694	16		77.0%				
696	20		85.0%				
697	6		31.0%				
699	13		38.5%				

Date : 9.9.2022

  
 Department of Zoology  
 Serampore Girls' College  
 Serampore, Hooghly

# Serampore Girls' College

SERAMPORE, HOOGHLY

B.A/B.Sc. 3<sup>rd</sup> Sem CIE I Examination, 20 22

Subject : ZOO & CC3 and SEC

Full Marks : 20

CIE

till 07.09.2022

20.9.22

Roll No.	Paper	Roll No.	Paper	Roll No.	Paper	Roll No.	Paper
	<u>CC3</u>		<u>Altover</u>		<u>SEC</u>		
343	11		43.5%		15		
<del>349</del>	<del>AD</del>		56.5%		(AB)		
352	10		39.8%		10		
353	10		69.6%		18		
356	10		65.2%		9		
357	10		56.5%		17		
360	12		17.4%		11		
361	13		73.9%		15		
363	7		26.1%		8		
367	13		56.5%		12		
370	17		100.00%		20		
371	13		39.1%		14		
372	6		17.4%		(9) G		
768	12		87.0%		15		

Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly

Ananya

Signature of the Examiner

Date : 08.09.2022

Updated on 10.09.2022

Department of Zoology  
Serampore Girls' College  
Serampore, Hooghly





# Serampore Girls' College

(033) 26527850 (Principal)

(Estd.: 1981)

Re-Accredited by NAAC : Grade B (2nd Cycle)

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E-mail : serampore\_girls\_college@yahoo.co.in

Website : www.seramporegirlscollege.org

Ref. No. ....

Date 26/4/2023

SERAMPORE GIRLS' COLLEGE		
Continuous Internal Evaluation (CIE) May 2023 for IV & VI semester		
Date of exam	10:30am -12:30 noon	1:30-3:30 pm
02-05-2023 Tuesday	6th Sem Hons CC13 & CC14	4th Sem HONS CC8 & CC9
	4th Sem General Paper CC4/GE4 and SEC Paper- English, Bengali, Political Science, , Economics, Physics, Electronics, Botany	6th Sem General DSE and SEC paper -History, Education, Physical Educatioun, Zoology, Mathematics
4/5/2023 Wednesday	4th Sem General Paper CC4/GE4 and SEC Paper- Hlstory, Education, Physical Educatioun, Zoology, Mathematics	6th Sem DSE and SEC for General paper - Geography, Sociology, Sanskrit, Hindi, Urdu, Music, Chemistry, Computer Science
		4th Sem General Paper CC4/GE4 and SEC Paper- Philosophy
06-05-2023 Thursday	6th Sem Hons DSE A & DSE B	4th Sem HONS CC10 & SEC Paper
	4th Sem General CC4/GE4 and SEC paper - Geography, Sociology, Sanskrit, Hindi, Urdu, Muslc, Chemistry, Computer Science	6th Sem General DSE and SEC Paper - English, Bengali, Political Science,Economics, Philosophy, Physics, Electronics, Botany
	Principal	Uttam Halder Convener Routine Committee

Sara Roy  
Principal  
Serampore Girls' College  
Serampore, Hooghly

Uttam Halder 26/4/23  
Convener, Routine Committee  
Serampore Girls' College

# SERAMPORE GIRLS' COLLEGE

Continuous Internal Evaluation (CIE) May 2023 for 2nd semester

Date of exam	10:30am -11:30am	12:30 pm -1:30	2:30-3:30
05-2023 Wednesday	2nd Sem General Paper CC2/GE2 - History, Education, Physical Educatiuon, Zoology, Mathematics	2nd Sem General Paper CC2/GE2 - English, Bengali, Political Science, Philosophy, Economics, Physics, Electronics, Botany	2nd Sem General Paper CC2/GE2 - Geography, Sociology, Sanskrit, Hindi, Urdu, Music, Chemistry, Computer Science
-05-2023 Thursday	Hons -CC3 all subjects	Hons -CC4 all subjects	
	<i>Sana By</i> <i>Sana By</i> Principal	25/4/23 Principal	UHam Halder UHam Halder Convener Routine Committee

Principal  
Serampore Girls' College  
Serampore, Hooghly

Convener, Routine Committee  
Serampore Girls' College

# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 2; 6<sup>th</sup> Semester, 2023

Full marks (20 + 20) Duration: (1 hour + 1 hour) Date: 02/05/2023

Time: 01:30pm-03:30pm

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Paper: Ecology and wild life biology

Paper Code: ZOOG-DSE-B-6-2-TH

Q1. Answer any five.

2 \* 5 = 10

- Differentiate between autecology and synecology? / autecology and synecology র পার্থক্য লেখো।
- What are the limiting factors for population growth? / population growth এর limiting factors কী?
- What do you mean by biotic potential? / limiting factors বলতে কী বোঝো?
- What is Population dispersion? / Population dispersion কী?
- What is natality? / natality কী?
- What is mortality? / mortality কী?
- What is age pyramid? / age pyramid কী?

Q2. Answer any one.

1 \* 10 = 10

- Write short notes on Life table and Life expectancy curve. / Life table and Life expectancy curve এর বিষয়ে টীকা লেখো। 5 + 5 = 10
- Write short notes on J shaped and S shaped population growth curve. / J shaped and S shaped population growth curve এর বিষয়ে টীকা লেখো। 5 + 5 = 10

Paper: Medical Diagnosis

Paper Code: ZOOG-SEC-B-6-4-TH

Q1. Write short notes on any four. / যেকোনো চারটির বিষয়ে টীকা লেখো।

5 \* 4 = 20

- Diagnosis of Malaria. ii) Diagnosis of TB, iii) Diagnosis of Hepatitis, iv) Diagnosis of Diabetes, v) Diagnosis of Hypertension.



# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 2; 4<sup>TH</sup> Semester, 2023

Full marks 20 Duration: 1 hour Date: 04/05/2023 Time: 10:30 am – 12:30 pm

Paper: Genetics and Evolutionary biology Paper Code: ZOOG-CC-4-4-TH

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Q1. Answer any five. / যেকোনো পাঁচটির উত্তর দাও। 2 \* 5 = 10

- i) What is crossing over? / crossing over কাকে বলে?
- ii) What is Linkage group? / Linkage group কাকে বলে?
- iii) What is coacervate? / coacervate কী?
- iv) What is Hot Dilute soupe? / Hot Dilute soupe কী?
- v) What is synthetic theory? / synthetic theory কী?
- vi) What is importance of recombination. / recombination এর গুরুত্ব লেখো।
- vii) How many linkage group are there in *Drosophila* and human? / *Drosophila* আর মানুষে কয়টি করে linkage group আছে?

Q2. Answer any one. / যেকোনো একটির উত্তর দাও। 1 \* 10 = 10

- i) What are the differences between Lamarckism and Darwinism. Describe Miller's experiment with proper diagram. / Lamarckism and Darwinism এর পার্থক্য লেখো। Miller's experiment সচিত্র বর্ণনা করো। 5+5
- ii) Define Linkage. Differentiate between complete and incomplete linkage of *Drosophila*. Describe the mechanism of Hoilday structure with proper diagram. / linkage এর সংজ্ঞা দাও। *Drosophila* র সম্পূর্ণ ও অসম্পূর্ণ linkage ব্যাখ্যা করো। সচিত্র Hoilday structure ব্যাখ্যা করো. (2+3 +5)

# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 1; 2<sup>nd</sup> Semester, 2023

Full marks 20 Duration: 1 hour Date: 03/05/2023 Time: 10:30 am – 11:30 am

Paper: Comparative anatomy and Developmental Biology Paper Code: ZOOG-CC-2-2-TH

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Q1. Answer any five. / যেকোনো পাঁচটির উত্তর দাও। 2 \* 5 = 10

- i) What is sweat gland? / sweat gland কী?
- ii) What is single circuit heart? / single circuit heart কী?
- iii) What is foramen Ovale? / foramen Ovale কী?
- iv) Write the function of Sertoli cell. / Sertoli cell এর কাজ কী?
- v) What is Venous heart? / Venous heart কী?
- vi) What is Megalecithal egg? / Megalecithal egg কী?
- vii) What are polar bodies? / polar bodies কী?

Q2. Answer any one. / যেকোনো একটির উত্তর দাও। 1 \* 10 = 10

- i) Comment on nature of secretion from mammalian sweat and sebaceous gland? What is preen gland? What is its utility? Draw and describe a single circuit heart. / mammalian sweat and sebaceous gland এর ক্ষরণের প্রকৃতির বিষয়ে লেখো। প্ৰিন গ্ল্যান্ড কী? এর কাজ লেখো। single circuit heart এর বর্ণনা দাও চিত্র সহযোগে।

(1.5+1.5+1+1) + 5

- ii) Elucidate oogenesis with proper diagram. Distinguish between spermatogenesis and oogenesis. / oogenesis এর বর্ণনা দাও চিত্র সহযোগে। spermatogenesis and oogenesis এর পার্থক্য লেখো। 5+5

# Serampore Girls' College

SERAMPORE, HOOGHLY

B.A/B.Sc. ✓ CIE 2 6<sup>th</sup> Sem Examination, 2023

Subject : ZOO & DSEB & SEC

Full Marks : 20 each

20

(%)

Roll No.	Paper	Roll No.	Paper	Roll No.	Paper	Roll No.	Paper
	DSE		SEC		Attendance		
688	9		11		22.7%		
692	12		8		86.4%		
696	12		11		86.4%		
697	8		7		36.4%		
699	10		9		41.0%		

Date : 03.05.23

*Ananyach*  
Signature of the Examiner



# Serampore Girls' College

SERAMPORE, HOOGHLY

B/A/B.Sc. CIA 2<sup>nd</sup> Sem Examination, 2023

Subject : 2004 CC4

Full Marks : 20

# Serampore Girls' College

SERAMPORE, HOOGHLY

B/A/B.Sc. CIA 1<sup>st</sup> Sem Examination, 2023

Subject : 2006 CC2

Full Marks : 20

21

Roll No.	Paper	Roll No.	Paper	Roll No.	Paper	Roll No.	Paper
	CC-4				marks		
343	AB				16%		
					<del>52</del>		
349	13				52.0%		
352	13				52.0%		
353	10				48.0%		
356	5				80.0%		
361	10				68.0%		
363	10				28.0%		
367	9				48.0%		
370	18				68.0%		
371	12				76.0%		
768	AB				56.0%		

Date : 06/05/23

*Ananyada*  
Signature of the Examiner

22

Roll No.	Paper	Roll No.	Paper	Roll No.	Paper	Roll No.	Paper
	CC2				marks		
777	13				80%		
778	AB				50%		
782	13				70%		
790	13				80%		
794	AB				20%		

Date : 05/05/23

*Ananyada*  
Signature of the Examiner

# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 2; 3<sup>rd</sup> Semester, 2022

Paper: Physiology and Biochemistry

Paper Code: ZOOG-CC-3-3-TH

Full marks 20 Duration: 1hour Date: 30/11/2022 Time: 12:45-1:45 pm

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Q1. Answer any five.

2 \* 5 = 10

- i) Name the hormones from pars distalis of pituitary./ pars distalis of pituitary থেকে ক্ষরিত হওয়া দুটি হরমোনের নাম লেখো।
- ii) Function of somatotrophic hormone. / somatotrophic hormone এর কাজ লেখো।
- iii) Name the hormones released from thyroid gland. / thyroid gland থেকে ক্ষরিত হওয়া দুটি হরমোনের নাম লেখো।
- iv) Define menstrual cycle. / মাসিক রজচক্রের সংজ্ঞা দাও।
- v) Name two ovarian hormone. / দুটি ovarian hormone এর নাম লেখো।
- vi) Position and functions of Sertoli cells. / Sertoli cells এর অবস্থান ও কাজ লেখো।
- vii) Differentiate between transamination and deamination / transamination and deamination এর মধ্যে পার্থক্য লেখো।

Q2. Answer any one.

1 \* 10 = 10

- i) Histological structure of Pancreas and Thyroid. / Pancreas and Thyroid এর কলাস্থানিক গঠন লেখো। 5+5 = 10
- i) Role of different hormones, in luteal phase of menstrual cycle. Urea cycle with suitable diagram. / luteal phase of menstrual cycle এ বিভিন্ন হরমোনের গুলির ভূমিকা লেখো। উপযুক্ত চিত্রের সাহায্যে Urea cycle বর্ণনা করো। 5 + 5 = 10



# Serampore Girls College

## Department of Zoology

Continuous Internal Assessment 2; 3<sup>rd</sup> Semester, 2022

Paper: Apiculture

Paper Code: ZOOG-SEC-A-3-1-TH

Full marks 20 Duration: 1 hour Date: 1/12/2022 Time: 11:00 am -12:00

Read and follow all the instructions, carefully before answering. Apply examples/diagram/chart/flow chart/graph/equation/illustrative works etc. to enhance the quality of your answer at per your own understanding.

Q1. Answer any five.

2 \* 5 = 10

- i) What is pollen basket? / pollen basket কী?
- ii) What is super chamber? / super chamber কী?
- iii) What is major and minor honey flow period? / মুখ্য এবং গৌণ মধু প্রবাহকাল কাকে বলে?
- iv) What is an apiary? / apiary কী?
- v) What is brood chamber? / brood chamber কী?
- vi) How do you control swarming? / কীভাবে মৌমাছির ঝাঁক বাঁধা নিয়ন্ত্রণ করা যায়।
- vii) Name two pollen yielding plants? / দুটি পরাগ উৎপাদী গাছের নাম লেখো।
- viii) Name two hymenopteran enemies of bees. / মৌমাছির দুটি hymenopteran শত্রুর নাম লেখো।

Q2. Answer any one.

1 \* 10 = 10

- i) Describe the structure of Newton hive. Discuss the advantages of modern apiculture. / Newton hive গঠন লেখো। আধুনিক মউ-প্রতিপালনের সুবিধাগুলি লেখো। 5 + 5 = 10
- ii) Write a note on: "Bee flora". Discuss the appliances, used in bee keeping. / "Bee flora" র বিষয়ে টীকা লেখো। মৌ প্রতিপালনে ব্যবহৃত যন্ত্রাদির বর্ণনা দাও। 5 + 5 = 10



# Serampore Girls' College

SERAMPORE, HOOGHLY

B.A/B.Sc. CIE Examination, 2022

Subject : ZOOLOGY

Full Marks : 20

22 <sup>1<sup>st</sup> Sem</sup>      21 <sup>3<sup>rd</sup> Sem</sup>      20 <sup>5<sup>th</sup> Sem</sup>

Roll No.	Paper <u>CC1</u>	Roll No.	Paper <u>CC3</u>	Roll No.	Paper <u>SEC-A</u>	Roll No.	Paper <u>DSB-A</u>
772	AB	343	9	343	14	688	6
777	11	349	14	349	12	<del>691</del>	<del>AB</del>
778	14	352	<u>5</u>	352	15	692	15
780	AB	353	11	353	12	694	6
782	16	356	7	356	<u>5</u>	696	13
783	AB	<del>357</del>	<del>AB</del>	<del>357</del>	<del>AB</del>	697	8
784	AB	360	8	360	10	699	7
785	AB	361	13	361	14		
789	AB	363	8	363	9		
790	17	367	12	367	15		
791	AB	370	18	370	19		
793	AB	371	13	371	13		
794	11	<del>372</del>	<u>4</u>	<del>372</del>	<u>0</u>		
796	AB	768	12	768	6		

Date : 2/12/22

*Ananyadi*  
 Signature of the Examiner  
 Department of Zoology  
 Serampore Girls' College  
 Serampore, Hooghly

# Serampore Girls' College

SERAMPORE, HOOGHLY

B.A/B.Sc. Attendance Examination, 2022

Subject : ZOOLOGY

Full Marks : 100 %

22 1st Sem 21 3rd Sem 20 5th Sem 5th Sem

Roll No.	Paper 17	Roll No.	Paper 54	Roll No.	Paper 32	Roll No.	Paper 32
772	6%	343	35.2%	688	37.5% (60.4%)		~60.4%
777	76.5%	349	57.4%	691	75%		X
778	64.7%	352	33.3%	692	<del>90.6%</del> 74%		75%
780	52.9%	353	48.1%	694	81.3%		90.6%
782	<del>76.5</del>	356	50.0%	696			81.3%
783	X	357	44.4%	697	81.3%		40.6%
784	0%	360	16.7%	699			37.5%
785	11.8%	361	83.3%				
789	11.8%	363	33.3%				
790	82.4%	367	72.2%				
791	6%	370	96.3%				
793	6%	371	63.0%				
794	11.8%	372	14.8%				
796	0%	768	54.0%				


Date : 2/12/22

*Ananyadi*  
 Signature of the Examiner  
 Department of Zoology  
 Serampore Girls' College  
 Serampore, Hooghly



