বিশেষ বিজ্ঞপ্তি

Date : 01-11-23

দর্শন বিভাগের SEM III (Hons) ছাত্র-ছাত্রীদের জানানো যাচ্ছে যে আগামী 08/11/2023 তারিখ তোমাদের CC-6 Paper 2nd Internal Assessment নেওয়া হবে। সকল ছাত্র-ছাত্রীকে ওই দিন উপস্থিত থাকতে জানানো হচ্ছে।

Room no -- 98

Time -- 1:00 pm

Teacher's name

Dasarath Murmu

Sujit Mondal
01/11/2023

Department of Philosophy

Suri Vidyasagar College

HOD
Dept. of Philosophy
Suri Vidyasagar College

বিশেষ বিজ্ঞপ্তি

Date:-02/11/23

দর্শন বিভাগের SEM V (Hons) ছাত্র-ছাত্রীদের জানানো যাচ্ছে যে আগামী 10-11-2023 তারিখ তোমাদের CC-11 Paper-23 Internal Assessment নেওয়া হবে। সকল ছাত্র-ছাত্রীকে ওই দিন উপস্থিত থাকতে জানানো হচ্ছে।

Room no -- 98

Time -- 12:05 P.M.

Teacher's name:

Dasarath Murmu

Sujit Mondal
02/11/2023

Department of Philosophy

Suri Vidyasagar College

HOD
Dept. of Philosophy
Suri Vidyasagar College

বিশেষ বিজ্ঞপ্তি

Date :- 09-11-23

দর্শন বিভাগের SEM I (Hons) ছাত্র-ছাত্রীদের জানানো যাচ্ছে যে আগামী 17/11/15 তারিখ তোমাদের CC-1 Paper-2? Internal Assessment নেওয়া হবে। সকল ছাত্র-ছাত্রীকে ওই দিন উপস্থিত থাকতে জানানো হচ্ছে।

Room no -- 85

Time -- 1:00 P.M.

Teacher's name
Ramesh Das

09/11/23

Department of Philosophy

Suri Vidyasagar College

HOD
Dept. of Philosophy
Suri Vidyasagar College

বিশেষ বিজ্ঞপ্তি

Date - 9/11/23

দর্শন বিভাগের SEM I (Gen) ছাত্র-ছাত্রীদের জানানো যাচ্ছে যে আগামী 16/11/23 তারিখ তোমাদের CC-1A/GE-1 Paper এর Internal Assessment নেওয়া হবে। সকল ছাত্র-ছাত্রীকে ওই দিন উপস্থিত থাকতে জানানো হচ্ছে।

Room no -- 98

Time -- 12:05 P.M.

Teacher's name,
Ramesh Das

09/11/23

Department of Philosophy

Suri Vidyasagar College

HOD
Dept. of Philosophy
Suri Vidyasagar College

বিশেষ বিজ্ঞপ্তি

Date :- 14/11/23

দর্শন বিভাগের SEM V (Hons) ছাত্র-ছাত্রীদের জানানো যাচ্ছে যে আগামী 22/11/2023 তারিখ তোমাদের DSE-2 Paper-III Internal Assessment নেওয়া হবে। সকল ছাত্র-ছাত্রীকে ওই দিন উপস্থিত থাকতে জানানো হচ্ছে।

Room no -- 98

Time -- 1:00 P.M.

Teacher's name
Sujit Mondal

Sujit Mondal
14/11/23

Department of Philosophy

Suri Vidyasagar College

HOD
Dept. of Philosophy
Suri Vidyasagar College

বিশেষ বিজ্ঞপ্তি

Date :- 20/11/23

দর্শন বিভাগের SEM V (Hons) ছাত্র-ছাত্রীদের জানানো যাচ্ছে যে আগামী 28/11/2023 তারিখ তোমাদের DSE-1 Paper-2 Internal Assessment নেওয়া হবে। সকল ছাত্র-ছাত্রীকে ওই দিন উপস্থিত থাকতে জানানো হচ্ছে।

Room no -- 85

Time -- 1:00 P.M.

Teacher's name

Ramesh Das

20/11/23

Department of Philosophy

Suri Vidyasagar College

HOD
Dept. of Philosophy
Suri Vidyasagar College

Suri Vidyasagar College

B.A. Semester - V

Subject: Philosophy (Hons)

Paper: CC-11

2nd Internal Test

Date:-10.11.23

যে কোনো পাঁচটি প্রশ্নের উত্তর দাও: 1×5 = 5

i) [illegible] ও [illegible] দুটি পার্থক্য লেখো।

ii) [illegible] ও [illegible] দুটি পার্থক্য লেখো।

iii) [illegible] কি?

iv) [illegible] কি?

v) [illegible] ও [illegible] মূল পার্থক্য কি?

vi) [illegible] সমাজ-এর কোনো দুটি [illegible]-এর নাম লেখো।

vii) [illegible] সমাজ [illegible] যে দুটি [illegible] উল্লেখ করেছেন সে দুটি কি কি?

viii) [illegible] কোনো দুটি [illegible]-এর নাম লেখো।

ix) [illegible] বিরুদ্ধে [illegible] দুটি যুক্তি দাও।

Suri Vidyasagar College

B.A. Semester – III

Date :- 08.11.2023

Subject : Philosophy (Hons)

Paper : CC – 6

2nd Internal Test :

যেকোনো পাঁচটি প্রশ্নের উত্তর দাও : 1 × 5 = 5

1) মনস্তত্ত্বসম্মত সুখবাদ ও নীতিসম্মত সুখবাদের পার্থক্য লেখাও।
2) বেন্থাম স্বীকৃত নিয়ন্ত্রণগুলি কি কি?
3) 'সুখী শূকর অপেক্ষা অসুখী সক্রেটিস হওয়া ভালো'— উক্তিটি কার?
4) সুখবাদের হেঁয়ালি বলতে কী বোঝায়?
5) আত্মহত্যার পক্ষে দুটি যুক্তি দাও।
6) ইউথ্যানাসিয়ার বিপক্ষে দুটি যুক্তি দাও।
7) 'Gender' ও 'Sex' শব্দ দুটির মধ্যে পার্থক্য কি?
8) যৌনবিদ্বেষবাদ (Sexism) কি?
9) লিঙ্গতত্ত্ব কি?
10) সিমোন দ্য বোভোয়ার লেখা একটি বই-এর নাম লেখো।

Sri Vidyasagar College
Dept. of Philosophy
1st Internal Test
Sem - V
Paper - DSE-2

Date:- 22.11.23

যে কোন পাঁচটি প্রশ্নের উত্তর দাও :- [1×5 = 5]

① "The Problems of Philosophy" – গ্রন্থটির রচয়িতা কে?
② 'অবভাস' বলতে দার্শনিকরা কি বুঝিয়েছেন?
③ রাসেলের দার্শনিক সমস্যাটি কোন বিষয়কে কেন্দ্র করে?
④ জ্ঞাতৃবস্তু বলতে রাসেল কি বুঝিয়েছেন?
⑤ 'ইন্দ্রিয় উপাত্ত' শব্দটি সর্বপ্রথম কোন দার্শনিক প্রয়োগ করেন?
⑥ জড় জগতের অস্তিত্ব প্রতিপাদনে রাসেল প্রদত্ত যুক্তিগুলির মধ্যে যে কোন একটির নাম লেখো।
⑦ ইন্দ্রিয় উপাত্ত ও জ্ঞাতৃবস্তুর মধ্যে একটি পার্থক্য উল্লেখ কর।
⑧ 'The Main Problems of Philosophy' গ্রন্থটি কার লেখা?
⑨ জড় পদার্থকে 'ঈশ্বরের মনের ধারণা' বলেছেন কোন দার্শনিক?
⑩ রাসেল সম্বেদন বলতে কি বুঝিয়েছেন?

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Dept. of Philosophy
Suri Vidyasagar College

Date:- 28/11/23

1st Internal Test (DSE-I)

SEM-V

যে কোনো পাঁচটি প্রশ্নের উত্তর দাও।

1×5 = 5

1) মহাবীর পার্শ্বনাথের প্রায় কত বছর পরে জন্মেছিলেন?

2) পার্শ্বনাথের পিতার নাম কি ছিল?

3) পার্শ্বনাথের পিতা যে রাজ্য শাসন করেছিলেন সেই রাজ্যের নাম কি ছিল?

4) পার্শ্বনাথের পিতা রাজা কি নাম ধারণ করেছিলেন?

5) পার্শ্ব প্রথম ব্রতটি কি প্রবর্তন করেছিলেন?

6) পঞ্চম ব্রতটি কি ছিল?

7) মহা পার্শ্বনাথের পরে পঞ্চম ব্রতটি যোগ করেছিলেন?

8) তৃতীয় ব্রতটি কি ছিল?

9) দ্বিতীয় ব্রতটি কি ছিল?

10) পার্শ্বনাথের পিতা কোন রাজ্য শাসন করেছিলেন?

SURI VIDYASAGAR COLLEGE

Department Of Philosophy

Internal assessment 2023

Date:- 17.11.23

Sem – 1 (Philosophy Honours)

Paper – CC -1

(Outlines of Indian philosophy -1)

Full Marks-10 **Time – 45 Minutes**

বিভাগ– ক

যে কোনো একটি প্রশ্নের উত্তর দাও:

1. 'ঋণ' বলতে কী বোঝায়? বিভিন্ন প্রকার বৈদিক ঋণের ব্যাখ্যা দাও। 1+4= 5

2. দ্রব্য কী? দ্রব্যের লক্ষণ বিশ্লেষণ করো। 1+4= 5

বিভাগ – খ

যেকোনো একটি প্রশ্নের উত্তর দাও :

1.অষ্টাঙ্গিক মার্গ সংক্ষেপে ব্যাখ্যা কর । 5

2. প্রতীত্যসমুৎপাদবাদ তত্ত্বের সংক্ষেপে বর্ণনা দাও। 5

SURI VIDYASAGAR COLLEGE

Department of Philosophy

Date:- 16.11.23

Internal Assessment - 2023

Sem – 1(General)

Paper - CC-1A / GE -1

(Indian philosophy)

Full Marks : 10 Time : 45 Minutes

যেকোনো দুটি প্রশ্নের উত্তর দাও:

A)চার্বাক দেহাত্মবাদ / ভূতচৈতন্যবাদ সবিচার আলোচনা করো।5

B) অষ্টাঙ্গিক মার্গ সংক্ষেপে আলোচনা করো। 5

C) উদাহরণসহ স্বার্থানুমান ও পরার্থানুমানের মধ্যে পার্থক্য আলোচনা করো। 5

D) যে কোনো দুটি প্রশ্নের উত্তর দাও – ২×২=৪

১.মীমাংসা দর্শন মতে,প্রমাণ কয়টি ও কী কী?

২. "বেদান্ত" শব্দের অর্থ কী?

৩. অদ্বৈতবাদের মূল কথা কী?

৪.সত্তাত্রৈবিধ্যবাদ কী?

৫. নম্বর প্রশ্নের উত্তর অবশ্যই করতে হবে- মীমাংসা সূত্রের রচয়িতা কে?(১)

Sem - 6 (H)

Portal Upload - 16/08/23
Portal Entry সম্পন্ন

Philosophy in the Twentieth century: Indian

Suri Vidyasagar College

Deperment of Philosophy

Internal Exam/Assignment

SEM 6 (H) Year 2023 Paper CC-13

S.L.	Name	BU. Roll No.	Regd.No	C1 (project)	C2 (viva)	P	Total
1.	Alo Dhar	20013/000012		7	2	4	13
2.	Amina Khatun	013		6	2	3	11
3.	Babila Khatun	057		7	3	5	15
4.	Farzana Khatun	089		7	2	3	12
5.	Fiza Khatun	090		6	2	4	12
6.	Gargi Dutta	091		7	2	3	12
7.	Kiran Murmu	119		7	3	4	14
8.	Krishna Ghosh	123		6	2	3	11
9.	Kulsuma Khatun	124		6	2	4	12
10.	Mafuja Khatun	126		6	2	4	12
11.	X	132	X				
12.	Neha Dhibar	149		6	2	3	11
13.	Rimpa Pal	195		7	2	5	14
14.	Riya Das	199		7	3	3	13
15.	Sangita Dey	220		7	3	5	15
16.	Shrabani Das	236		7	2	4	13
17.	SK. Salman	249		7	2	3	12
18.	Sourav Bagdi	259		7	2	3	12
19.	Smriti Mal	252	whatsapp mood [illegible]	6	0	3	09
20.	Sukanto Pramanik	278		7	2	4	13
21.	Suman Mahara	280		7	2	4	13
22.	Supriya Patar	290		7	2	3	12
23.	Susmita Dome	294		7	3	5	15
24.	Sutapa Halder X	296	X				
25	Tamijuddin Sekh	300		7	2	4	13
26	Tirtha Das	306		7	2	4	13
27.	Trisha Dutta	308		7	3	5	15

Sajit Mondal
1.7.23

✓ Portal Upload - 16/08/23

Sem-VI (Hons) CC-14

Philosophy in the Twentieth Century (Western)

SURI VIDYASAGAR COLLEGE

DEPT. OF PHILOSOPHY

INTERNAL ASSESSMENT

	BU Roll NO.	REG NO.	SIGN	C1	C2	P	Total
1	200131000012						
2	013			10		4	14
3	057			10		3	13
4	089			10		4	14
5	090			10		4	14
6	091			10		4	14
7	119			10		4	14
8	123			10		4	14
9	124			10		4	14
10	126			10		4	14
11	149			10		4	14
12	195			10		4	14
13	199			10		4	14
14	220			10		4	14
15	236			10		4	14
16	249			10		4	14
17	252	Form fillup x 2023 fee	x	10		4	14
18	259			10		4	14
19	278			10		4	14
20	280			10		4	14
21	290			10		4	14
22	294			10		4	14
23	~~296~~	x		10		4	14
24	300			~~10~~		~~4~~	~~14~~
25	306			10		4	14
26	308			10		4	14
27				10		5	15
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Dasarath Murmu
12.08.2023

Rabindranath Tagore ✓ Portal Upload 16/8/23

Sem-6 (H) R.D.

DSE-03 (Sadhana)

DSE-3

SURI VIDYASAGAR COLLEGE

DEPT. OF PHILOSOPHY

INTERNAL ASSESSMENT 2023

	BU Roll NO.	REG NO.	SIGN	C1	C2	P	Total
1	2001310000 12			10		5	15
2	13			10		4	14
3	57			10		5	15
4	89			10		4	14
5	90			10		4	14
6	91			10		4	14
7	119			10		5	15
8	123			10		4	14
9	124			10		4	14
10	126			10		4	14
11	149			10		4	14
12	195			10		5	15
13	199			10		4	14
14	220			10		5	15
15	236			10		4	14
16	249			10		4	14
17	252 ~~259~~	Form fillup ✗ marks ✗		10		4	14
18	259			10		4	14
19	278			10		4	14
20	280			10		4	14
21	290			10		4	14
22	294			10		4	14
23	✗ ~~296~~	✗		✗ ~~10~~		~~6~~	~~76~~ ✗
24	300			10		4	14
25	306			10		5	15
26	308			10		5	15
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Rdas.

✓ Portal Upload 16/8/23
Hume: An Enquiry Concerning Human Understanding

Suri Vidyasagar College

Deperment of Philosophy

Internal Exam/Assignment

SEM 6th Hons. Year 2022—2023 Paper DSE-04

	Name	Roll No.	Regd.No	C1	C2	P	Total
1.	Alo Dhar	2001310000/12		5	5	5	15
2.	Amina Khatun	2001 - - - 13		4	4	3	11
3.	Babita Khatun	2001 - - - 57	202001031030 of 2020-2021	4	4	5	13
4.	Farzana Khatun	2001 - - - 89		4.5	4.5	5	14
5.	Fiza Khatun	2001 - - - 90		4	4	5	13
6.	Gargi Dutta	2001 - - - 91	202001031044 of 2020-2021	3	4	2	09
7.	Kiran Murmu	2001 - - - 119	202001031072 of 2020-2021	3	4	4	11
8.	Krishna Ghosh	2001 - - - 123	202001031076 of 2020-2021	5	3	2	10
9.	Kulsuma Khatun	2001 - - - 124		4	4	3	11
10.	Matuza Khatun	2001 - - - 126	202001031079 of 2020-2021	4	4	4	12
11.	Neha Dhibar	2001 - - - 149		4	5	4	13
12.	Rhumpa Pal	2001 - - - 195	202001031152 of 2020-2021	5	5	5	15
13.	Riya Das	2001 - - - 199	202001031156 of 2020-2021	3	5	3	11
14.	Sangita Dey	2001 - - - 220	202001031177 of 2020-2021	5	5	5	15
15.	Shrabani Das	2001 - - - 236	202001031193 of 2020-2021	4	4	5	13
16.	SK Salman	2001 - - - 249	202001031206 of 2020-2021	3	4	4	11
17.	Sourav Bagdi	2001 - - - 259		3	4	4	11
18.	Sukanto Pramanik	2001 - - - 278		5	5	5	15
19.	Suman Mahara	2001 - - - 280		4	4	4	12
20.	Supriya Patar	2001 - - - 290	202001031252 of 2020-2021	3	4	4	11
21.	Susmita Dome	2001 - - - 294	202001031256 of 2020-2021	4	4	5	13
22.	Tamizuddin Seikh	2001 - - - 300	202001031262 of 2020-2021	3	4	4	11
23.	Tirtha Das	2001 - - - 306	202001031268 of 2020-2021	4	4	4	12
24.	Trisha Dutta	2001 - - - 308	202001031270 of 2020-2021	4	4	5	13
25.	Smriti mal	2001 - - - 332	Form fillup করে নি	4	4	4	12

R. Mukherjee
Associate Professor in Philosophy
01/07/2023

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Suri Vidyasagar College

GE 2 :- PHIG (Western Philosophy)

Sem.:VI'2023

	Roll No.	Registration No	Student Name	C1	C2	Atten.	Total
	190431010206	201901031513	FATEMA KHATUN		6	3	9
	190431010223	201901031540	HEMA KONAI		6	3	9
	190431010343	201901031674	MD IMRAN		6	4	10
4	190431010776	201901032165	SONALI BAGDI		6	4	10
5	200431010001	202001031278	ABDUL HADI	Day5	5	4	14
6	200431010011	202001031288	ABHISHEK DAS		7	5	12
7	200431010036	202001031313	ALIMA KHATUN		7	3	10
8	200431010037	202001031314	ALOK BAGDI		7	3	10
9	200431010039	202001031316	AMBIKA MONDAL	Day5	5	4	14
10	200431010041	202001031318	AMINA KHATUN		7	3	10
11	200431010044	202001031321	AMIT DAS		7	4	11
12	200431010049	202001031326	AMINA KHATUN		7	4	11
13	200431010054	202001031332	ANITA DAS	Day4	4	4	12
14	200431010056	202001031333	ANJAN SIL		7	4	11
15	200431010059	202001031336	ANKAN BHAKAT		7	4	11
16	200431010075	202001031353	ARPITA CHATTERJEE		7	3	10
17	200431010076	202001031354	ARPITA HALDER		7	3	10
18	200431010081	202001031359	ASIM GHOSH		7	3	10
19	200431010084	202001031362	ASMINA KHATUN		6	4	10
20	200431010088	202001031366	ATANU BHANDARI		6	4	10
21	200431010090	202001031368	ATIN MAL		7	4	11
22	200431010105	202001031383	BABU MURMU		7	4	11
23	200431010118	202001031398	BEAUTY MAL		6	4	10
24	200431010120	202001031400	BHIM KISKU	Day4	4	4	12
25	200431010125	202001031406	BIKRAM PAL		6	4	10
26	200431010131	202001031412	BIMAN CHANDRA MONDAL		6	4	10
27	200431010134	202001031415	BIPLAB GARAI		6	3	9
28	200431010147	202001031429	BISWAJIT SAHA		6	3	9
29	200431010148	202001031430	BISWANATH DASH		7	3	10
30	200431010150	202001031432	BISWESWAR PAL	Day5	5	4	14
31	200431010158	202001031440	BULTI SUTRADHAR		7	3	10
32	200431010167	202001031450	CHHANDA BAGDI		7	3	10
33	200431010169	202001031452	CHIRANJIT MAZUMDER		7	4	11
34	200431010170	202001031453	CHOTTU MAL		7	4	11
35	200431010175	202001031458	DEB BAGDI		7	3	10
36	200431010178	202001031461	DEBASHIS MAHARA		7	3	10

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	.010179	202001031462	DEBASHREE GHOSHAL		7	4	11
	31010182	202001031465	DEBJIT MONDAL		7	3	10
	431010186	202001031469	DEEP DAS		7	3	10
	J0431010187	202001031470	DHANANJOY KUMAR MONDAL		7	3	10
	200431010193	202001031477	DISHA DALUI	Day5	5	4	14
	200431010194	202001031478	DIYA GHOSH	Day5	5	4	14
3	200431010219	202001031506	GOPAL DAS		6	3	9
44	200431010220	202001031508	GOPINATH BAIDYA		6	4	10
45	200431010257	202001031547	JHUMA MAL		6	4	10
46	200431010278	202001031571	KASMIRA KHATUN		7	3	10
47	200431010283	202001031576	KENIJ FATEMA	Day5	5	4	14
48	200431010298	202001031592	KOUSHIK BAGDI	Day5	5	4	14
49	200431010309	202001031604	LAKSHIRAM MURMU		7	4	11
50	200431010311	202001031606	LAKSHMI MAHARA		7	4	11
51	200431010324	202001031619	MAHIUDIN SK	Day4	5	4	13
52	200431010332	202001031628	MANAB RUJ	Day4	4	4	12
53	200431010335	202001031631	MANDIRA DHIBAR		6	3	9
54	200431010340	202001031636	MANISHA MONDAL		6	3	9
55	200431010341	202001031638	MANOS ROY		7	3	10
56	200431010357	202001031658	MD NAFZOL HOSSAIN		7	3	10
57	200431010360	202001031661	MD REJANUL HOQUE	Day3	4	4	11
58	200431010363	202001031664	MD SAMIM KHAN		6	3	9
59	200431010368	202001031669	MERILA MURMU		6	3	9
60	200431010383	202001031684	MONAJ KANTI DEY		7	3	10
61	200431010386	202001031687	MONIKA DAS		7	3	10
62	200431010401	202001031704	MOUSUMI DAS	Day4	5	4	13
63	200431010418	202001031721	NAHIMA KHATUN	Day4	4	4	12
64	200431010432	202001031736	NAYAN DAS	Day5	5	5	15
65	200431010438	202001031742	NEHA CHOWDHURY		6	4	10
66	200431010453	202001031757	NOKIR HOSSAIN	Day4	4	4	12
67	200431010456	202001031760	NURIN SULTANA		6	3	9
68	200431010479	202001031785	PINKI BAGDI		6	3	9
69	200431010481	202001031787	PINTU DAS		6	4	10
70	200431010495	202001031802	PRITAM MONDAL		6	4	10
71	200431010498	202001031805	PRITI GHOSH	Day4	4	4	12
72	200431010504	202001031813	PRIYA SAHA	Day5	5	4	14
73	200431010508	202001031816	PRIYANKA MONDAL		7	3	10
74	200431010522	202001031832	PUSPITA DUTTA		7	4	11
75	200431010524	202001031834	RABIN BAGDI		7	3	10
76	200431010525	202001031835	RABINDRANATH GHOSH		7	3	10

Ponlal Update 16/8/23

	010526	202001031836	RABITA KAHAR		7	4	11
	1010563	202001031875	REJIA KHATUN	Day4	4	5	13
	431010564	202001031876	REKSONA KHATUN	Day4	5	4	13
	0431010566	202001031878	RIAZ UDDIN KHAN		7	4	11
	200431010568	202001031880	RIFAN MONDAL		6	3	9
	200431010571	202001031883	RIMA MONDAL		6	3	9
3	200431010572	202001031884	RIMI KONAI	Day5	5	5	15
84	200431010573	202001031885	RIMPA MUKHERJEE		5	5	10
85	200431010579	202001031891	RINKU MONDAL		6	3	9
86	200431010593	202001031906	RIYA ROY	Day	6	4	10
87	200431010607	202001031921	RUMKI DHIBAR		6	3	9
88	200431010609	202001031924	RUPALI DAS		6	3	9
89	200431010625	202001031941	SAHANAZ PARVIN	Day5	5	4	14
90	200431010631	202001031948	SAHINA SULTANA	Day5	5	4	14
91	200431010634	202001031950	SAIBA NAJRIN		7	4	11
92	200431010639	202001031956	SALEHA KHATUN	Day4	4	4	12
93	200431010641	202001031960	SALMA KHATUN		7	4	11
94	200431010647	202001031964	SAMAPTI SINGHA	Day5	5	4	14
95	200431010666	202001031985	SANGITA SAHA	Day5	5	4	14
96	200431010675	202001031995	SANTANA KHATUN	Day5	5	5	15
97	200431010677	202001031997	SANTANA RAJOWAR		7	3	10
98	200431010679	202001031999	SARASWATI DAS		7	3	10
99	200431010688	202001032008	SATHI MAL		7	4	11
100	200431010691	202001032011	SAYAN BAGDI		7	4	11
101	200431010693	202001032013	SHAMBHU MAHARA		7	4	11
102	200431010695	202001032015	SHANTANU MONDAL		7	3	10
103	200431010699	202001032019	SHIBLAL MURMU		6	3	9
104	200431010701	202001032023	SHILPA DAS		6	3	9
105	200431010707	202001032028	SHILPI DAS		7	4	11
106	200431010719	202001032041	SHUVAM SUTRADHAR		7	3	10
107	200431010727	202001032050	SIMRAN PARVIN		7	3	10
108	200431010730	202001032053	SK ABBASUDDIN		7	3	10
109	200431010734	202001032058	SK ALAMGIR	Day4	4	4	12
110	200431010755	202001032080	SK JASIM UDDIN		7	4	11
111	200431010761	202001032086	SK KUTUBUDDIN		7	4	11
112	200431010778	202001032104	SK NAZMUL		6	3	9
113	200431010791	202001032118	SK ROBIUL		6	3	9
114	200431010800	202001032128	SK SAJAN		6	4	10
115	200431010801	202001032129	SK SAMIRUL		6	4	10
116	200431010813	202001032144	SK.KAYES	Day4	4	4	12

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	10818	202001032149	SOHAGINI TUDU		7	4	11
	1010819	202001032150	SOHANA SULTANA	Day3	4	4	11
	31010820	202001032151	SOIM ANSARI		7	4	11
	0431010823	202001032154	SOMA SAHA	Day4	5	4	13
	200431010830	202001032164	SONAMANI BAGDI		7	3	10
	200431010839	202001032172	SOUMYAJIT MONDAL		6	4	10
123	200431010844	202001032176	SOURAV MONDAL	Day4	5	4	13
124	200431010846	202001032179	SOUROV PAL		6	4	10
125	200431010848	202001032181	SRISHA CHAKRABORTY		6	4	10
126	200431010850	202001032183	SUBHADRA MAHARA	Day3	4	4	11
127	200431010852	202001032185	SUBHAJIT MAL		7	4	11
128	200431010856	202001032189	SUBHANKAR KAHAR		7	4	11
129	200431010881	202001032219	SUMAN MONDAL		6	4	10
130	200431010903	202001032243	SUSANA HEMBROM		7	3	10
131	200431010908	202001032248	SUTAPA MAL		7	3	10
132	200431010910	202001032251	TAHIRUN KHATUN		6	4	10
133	200431010911	202001032252	TAJMINA KHATUN	Day5	5	5	15
134	200431010914	202001032255	TAMANNA KHATUN		6	4	10
135	200431010921	202001032263	TANUSHREE BIRBANSHI	Day4	5	4	13
136	200431010926	202001032268	TASKIYA SIDDIQUE		6	4	10
137	200431010930	202001032274	TUHINA KHATUN	Day5	5	5	15
138	200431010937	202001032283	UMASHRI MAJUMDAR		7	3	10
139	200431010941	202001032287	UMMUL FARHA	Day3	4	4	11
140	200431010944	202001032290	URMILA HANSDA		7	4	11
141	200431010947	202001032293	YASMINARA KHATUN	Day5	5	5	15

Suri Vidyasagar College

Suri, Birbhum, 731101
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Department of Geography

NOTICE

Date: 05.08.2024

Subject: Discussion on Internal Examination Marks Submission

This is to inform all faculty members of the Department of Geography that a meeting will be held on **12.08.2024 at 11:00 AM** to discuss the submission of internal examination marks. The meeting will focus on the submission procedures, and other related issues.

All faculty members are requested to attend the meeting.

05.08.2024.
Head of the Department
Department of Geography
Suri Vidyasagar College

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Suri Vidyasagar College

Suri, Birbhum, 731101

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Department of Geography

NOTICE

Date: 18.09.2024

Subject: Annual Student Seminar

This is to inform all students of the Department of Geography that the Annual Student Seminar will be held as per the details mentioned below. All students are encouraged to actively participate and contribute to the seminar.

Details of the Seminar:

- **Date:** 13.11.2024
- **Time:** 11AM
- **Venue:** 1st floor of Vidyasagar Bhavan

Instructions for Participants:

1. Interested students are requested to register their names in the department.
2. Each presentation should not exceed eight minutes of presentation.
3. Participants are required to submit their topic to the department.
4. Certificates will be provided to all participants.

For further details, students may contact their respective faculty members.

18.09.2024

Head of the Department
Department of Geography
Suri Vidyasagar College

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Department of Geography

NOTICE

Date: 16.11.2024

Subject: Discussion on Purchasing Practical Instruments for NEP 2020 Syllabus

This is to inform all faculty members of the Department of Geography that a meeting will be held on **19.11.2024 at 11:30 AM** to discuss the procurement of practical instruments required for the NEP 2020 syllabus. The meeting will focus on identifying the necessary instruments, budgeting, and the process for purchasing them.

All faculty members are requested to attend the meeting.

16.11.2024.
Head of the Department
Department of Geography
Suri Vidyasagar College

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Suri Vidyasagar College

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Department of Geography

NOTICE

Date: 21.11.2024

Subject: Discussion on Field Survey of Semester-V Students

This is to inform all faculty members of the Department of Geography that a meeting will be held on **23.11.2024 at 11:00 AM** to discuss the upcoming field survey for Semester-V students. The meeting will focus on planning the survey, assigning responsibilities, and addressing any logistics or requirements for the successful execution of the fieldwork.

All faculty members are requested to attend the meeting.

21.11.2024.

Head of the Department
Department of Geography
Suri Vidyasagar College

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Department of Geography

NOTICE

Date: 05.01.2025

Subject: Mentor-Mentee Meeting for Students and Teachers.

This is to inform all the students and faculties that a **Mentor-Mentee Meeting** will be held on **06.01.2025 at 12.00 PM** to discuss academic progress, address any concerns, and guide students in their academic journey. The meeting aims to foster better communication and support between mentors and mentees.

All students and their respective faculty mentors are requested to attend the meeting and actively participate.

05.01.2025.

Head of the Department
Department of Geography
Suri Vidyasagar College

SURI VIDYASAGAR COLLEGE * DEPT. OF GEOGRAPHY * ESTD — 1942

CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks 10

Q. Define Research. Write major characteristic of Research problem. Write a short note on APA Style. 2+5+3=10

CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks 10

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CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks10

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CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks10

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CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks10

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CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks 10

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CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks 10

Q. Define Research. Write major characteristic of Research problem. Write a short note on APA Style. 2+5+3=10

CC 11: RESEARCH METHODOLOGY AND FIELD WORK

Time: 45 Minutes Full Marks 30

Q. Define Research. Write major characteristic of Research problem. Write a short note on APA Style. 2+5+3=10

………

DSE-2: POPULATION GEOGRAPHY

Time: 45 Minutes Full Marks 10

Differentiate between Population Geography and Demography. Briefly explain Marxian Theory of population growth. Write any one theory regarding Migration. 3+3.5+3.5=10

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…………………………………………………………………………………………………….

CC 7 – GEOGRAPHY OF INDIA

Time: 45 Minutes Full Marks 10

Attempt any one

1. Define Green revolution. Critically analyze about the consequences Green revolution. 3+7=10

2. Write a short note on water resources of West Bengal. Briefly analyze the relationship between Population Growth and human development. 5+5=10

CC 7 – GEOGRAPHY OF INDIA

Time: 45 Minutes Full Marks 10

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CC 7 – GEOGRAPHY OF INDIA

Time: 45 Minutes Full Marks 10

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Internal Marks

Suri Vidyasagar College

Department of Geography

Sem-4 Yr. Degree 1st Semester (CCFUP) as per NEP

Course Type- Skill Enhancement Course (SEC)

Course Name: Computer Basics and Computer Applications

Course Code: GEOG 1051

Roll No.	Registration No.	Total Marks (10)
230131040104	202101040947 of 2021-22	7
230131040039	202301029310 of 2023-24	6.5
230131040068	202301029442 of 2023-24	5.5
230131040077	202301029478 of 2023-24	7.5
230131040097	202301029589 of 2023-24	7.5
230131040109	202301029642 of 2023-24	7.5
230131040114	202301029674 of 2023-24	7
230131040184	202301029983 of 2023-24	7
230131040195	202301030025 of 2023-24	8
230131040203	202301030073 of 2023-24	7
230131040221	202301030141 of 2023-24	7.5
230131040222	202301030142 of 2023-24	7
230131040246	202301030271 of 2023-24	7.5
230131040248	202301030279 of 2023-24	7.5
230131040257	202301030316 of 2023-24	7
230131040259	202301030318 of 2023-24	7
230131040266	202301030346 of 2023-24	7.5
230131040279	202301030415 of 2023-24	9

Ranajit Ghosh

Signature of the Examiner(s)

Suri Vidyasagar College

Department of Geography

Sem-3 Yr. Degree 1st Semester (CCFUP) as per NEP

Course Type- Skill Enhancement Course (SEC)

Course Name: Computer Basics and Computer Applications

Course Code: GEOG 1051

Roll No.	Registration No.	Total Marks (10)
230431030067	202301029272 of 2023-24	4
230431030153	202301029407 of 2023-24	5
230431030323	202301029691 of 2023-24	6

Ranajit Ghosh

Signature of the Examiner(s)

Suri Vidyasagar College

Department of Geography

Sem-4 Yr. Degree 1st Semester (CCTUP) as per NEP

COURSE 1 (CODE: GEOG 1011)

Course Name: GEOTECTONICS AND GEOMORPHOLOGY (Major)

Course Code: GEOG 1011

Roll No.	Registration No.	Total Marks (15)
230131040104	202101040947 of 2021-22	8
230131040039	202301029310 of 2023-24	8
230131040068	202301029442 of 2023-24	9
230131040077	202301029478 of 2023-24	8
230131040097	202301029589 of 2023-24	14
230131040109	202301029642 of 2023-24	12
230131040114	202301029674 of 2023-24	9
230131040184	202301029983 of 2023-24	12
230131040195	202301030025 of 2023-24	12
230131040203	202301030073 of 2023-24	8
230131040221	202301030141 of 2023-24	14
230131040222	202301030142 of 2023-24	11
230131040246	202301030271 of 2023-24	11
230131040248	202301030279 of 2023-24	12
230131040257	202301030316 of 2023-24	9
230131040259	202301030318 of 2023-24	14
230131040266	202301030346 of 2023-24	11
230131040279	202301030415 of 2023-24	8

Hemanta Sutradhar

Signature of the Examiner(s)

Suri Vidyasagar College

Department of Geography

Sem-3 Yr. Degree 1st Semester (CCFUP) as per NEP

COURSE 1 (CODE: GEOG 1011)

Course Name: GEOTECTONICS AND GEOMORPHOLOGY (Major)

Course Code: GEOG 1011

Roll No.	Registration No.	Total Marks (15)
230431030067	202301029272 of 2023-24	7
230431030153	202301029407 of 2023-24	7
230431030323	202301029691 of 2023-24	8

Hemanta Sukradhar

Signature of the Examiner(s)

Suri Vidyasagar College

Subject- Geography

Course 1 (Code: Geog 1021)

(Course Title: Geotectonics and Geomorphology) (Minor)

Roll No.	Registration No.	Mazor subject	Internal marks (15)
230131040035	202301029293 of 2023-24	POLS	10
230131040067	202301029438 of 2023-24	PEDS	11
230131040275	202201023493 of 2022-23	ENGL	9.5
230431030014	202301029167 of 2023-24	POLS	10
230431030096	202301029319 of 2023-24	POLS	10
230431030098	202301029322 of 2023-24	SANS	9
230431030535	202301030062 of 2023-24	POLS	11

Chaitali Gorai

Signature of the Examiner(s)

Suri Vidyasagar College

Department of Geography

Sem-3 Yr. Degree 1st Semester (CCFUP) as per NEP

MULTIDISCIPLINARY COURSE (MDC)

Course Name: Physical Geography

COURSE :1 (CODE: GEOG 1031)

Roll No.	Registration No.	Mazor subject	Internal marks (15)
230331040079	202301030589 of 2023-2024	CHEM	12
230631030003	202301030496 of 2023-2024	PLPT	12
230331040009	202301030495 of 2023-2024	BOTN	13
230331040032	202301030528 of 2023-2024	ZOOL	10

Chaitali Gorai

Signature of the Examiner(s)

4 Yr. Honours 1st Semester Practical Examination, 2023 (Under CCFUP of NEP 2020)

Subject- Geography

Course Type- SKILL ENHANCEMENT COURSE (SEC)

Course Name: COMPUTER BASICS AND COMPUTER APPLICATIONS

Course Code: GEOG 1051

Practical: SEC (GEOG 1051) BASICS AND COMPUTER APPLICATIONS

Roll No.	Registration No.	Qn. No. 1	Qn. No. 2	Qn. No. 3	Qn. No. 4	Total
230131040104	202101040947 of 2021-22	8	5	7	3	23
230131040039	202301029310 of 2023-24	6.5	7	5	7.5	26
230131040068	202301029442 of 2023-24	7.5	2	7.5	7	24
230131040077	202301029478 of 2023-24	8	7	8	4	27
230131040097	202301029589 of 2023-24	6	8	9	8	31
230131040109	202301029642 of 2023-24	8	8	8.5	4	28.5
230131040114	202301029674 of 2023-24	8	7	6.5	5	26.5
230131040184	202301029983 of 2023-24	8.5	6	6.5	4	25
230131040195	202301030025 of 2023-24	8.5	7	8.5	7	31
230131040203	202301030073 of 2023-24	4	7	5	4	20
230131040221	202301030141 of 2023-24	5	7.5	5	4	21.5
230131040222	202301030142 of 2023-24	4	7	7	3	21
230131040246	202301030271 of 2023-24	3	4.5	6	3	16.5
230131040248	202301030279 of 2023-24	4.5	7	6	4	21.5
230131040257	202301030316 of 2023-24	4.5	6	5.5	4.5	20.5
230131040259	202301030318 of 2023-24	6.5	9	7	5	27.5
230131040266	202301030346 of 2023-24	5	6	6	3.5	20.5
230131040279	202301030415 of 2023-24	5.5	2	6	4	17.5

Ranajit Ghosh

Signature of the Examiner(s)

3 Yr. Degree 1st Semester Practical Examination, 2023 (Under CCFUP of NEP 2020)

Subject- Geography

Course Type- SKILL ENHANCEMENT COURSE (SEC)

Course Name: COMPUTER BASICS AND COMPUTER APPLICATIONS

Course Code: GEOG 1051

Practical: SEC (GEOG 1051) BASICS AND COMPUTER APPLICATIONS

Roll No.	Registration No.	Qn. No. 1	Qn. No. 2	Qn. No. 3	Qn. No. 4	Total
230431030067	202301029272 of 2023-24	5.5	4	5	5	19.5
230431030153	202301029407 of 2023-24	5.5	4	2.5	4	16
230431030323	202301029691 of 2023-24	4	7	5.5	2	18.5

Ranajit Ghosh

Signature of the Examiner(s)

B.A./B.Sc. 1st Semester (Hons.) Practical Examination- 2023 (CBCS)

Subject- Geography

Paper- CC-2

Practical: (CARTOGRAPHIC TECHNIQUES AND GEOLOGICAL MAP STUDY)

Roll No.	Registration No.	Qn. No. 1	Qn. No. 2	Qn. No. 3	Total
220131000153	202201033664 of 2022-23	4.5	2	7	13.5

Hemanta Sutradhar.

Signature of the Examiner(s)

SURI VIDYASAGAR COLLEGE
(Govt.Sponsored)
SURI, BIRBHUM
DEPARTMENT OF MICROBIOLOGY

NOTICE

Date: December 14, 2023

This is hereby informed to students' of Semester- V that **Internal assessment** will be taken according to the following schedule-

Paper	Date	Time
CC11	18/12/2023	11:00 AM- 11:45AM
DES1	18/12/2023	12:15AM- 1:00 PM
CC12	19/12/2023	11:00 AM- 11:45AM
DES2	19/12/2023	12:15AM- 1:00 PM

DEPARTMENT OF MICROBIOLOGY S. V. C.

Ravikrishna Roy

HOD

HEAD
DEPARTMENT OF MICROBIOLOGY
SURI VIDYASAGAR COLLEGE

Department of Microbiology
Suri vidyasagar College

MICROBIOLOGY (Honours)

Internal Assessment- 2023, (CBCS)

Semester- V, Paper- CC11

Full Marks: 10 **Time: 30 min**

Answer any **five** questions: 2 x 5 = 10

1. What is sparger? Mention its types.
2. Define baffles. Mention its role in a stirred tank fermenter.
3. What is the significance of headspace in a fermenter?
4. What do you mean by fed batch fermenter?
5. What is airlift fermenter?
6. What are antifoam agents? Give example.
7. Write down four major characters of a good fermenter.
8. Differentiate between submerged fermentation and stationary fermentation.

MICROBIOLOGY (Honours)

Internal Assessment- 2023, (CBCS)

Semester- V, Paper- CC12

Full Marks: 10 **Time: 30 min**

Answer any **five** questions: 2 x 5 = 10

1. Differentiate between MHC I and MHC II.
2. What is adjuvant? Give example.
3. Define alloantigen. Give example.
4. Draw a simple diagram of MHC I.
5. 'Transfer of IgG from mother to fetus' – what type of immunity and why?
6. Differentiate between B-cell and T-cell epitope?
7. Differentiate between T- dependent and T- independent Ag.
8. What are the functions of MHC molecule?

MICROBIOLOGY (Honours)

Internal Assessment- 2023, (CBCS)

Semester- V, Paper- DSE1

Full Marks: 10 **Time: 30 min**

Answer any **five** questions: 2 x 5 = 10

1. What is golden rice?
2. What are the different soil horizons?
3. Write down the mode of action of Bt toxin.
4. Name the genes inserted in golden rice.
5. What is the purpose of making golden rice?
6. What is cross pollination? How it is related with GM crop?
7. What is GM crop?
8. Mention two disadvantages of GM crop.

MICROBIOLOGY (Honours)

Internal Assessment- 2023, (CBCS)

Semester- V, Paper- DSE2

Full Marks: 10 **Time: 30 min**

Answer any **five** questions: 2 x 5 = 5

1. Write down the principle of phase contrast microscope.
2. Differentiate between bright field and dark field microscopy.
3. What do you mean by partition coefficient?
4. Differentiate between ascending and descending chromatography.
5. What is affinity chromatography?
6. Write down the principle behind adsorption chromatography.
7. Define Rf.
8. What is the principle of gas chromatography?

Suri Vidyasagar College
B.Sc. 5th Semester (Honours) Examination, 2023 (CBCS)
Internal Assessment
Subject: **Microbiology**

Course – CC 11 (Industrial Microbiology)

Sl No.	Name of Examinee	Registration No	Roll No	Full Marks	Marks Obtained		
					C1 (10)	C2 (5)	Total
1	ARPITA PAL	202101040919	210331000013	15	10	5	15
2	ASPIA KHATUN	202101040925	210331000017	15	9	5	14
3	AVIJIT MONDAL	202101040926	210331000018	15	4	2	06
4	DEBDAS MONDAL	202101040934	210331000025	15	7	5	12
5	MD MINHAJUDDIN	202101040955	210331000040	15	8	5	13
6	SANGITA SENGUPTA	202101040982	210331000064	15	10	5	15
7	SUBHAM MONDAL	202101040995	210331000070	15	8	5	13
8	SUSHOBHAN MARDI	202101041003	210331000075	15	7	5	12

DEPARTMENT OF MICROBIOLOGY S. V C. 5

Signature of the Examiner

Course – CC 12 (Immunology)

Sl No.	Name of Examinee	Registration No	Roll No	Full Marks	Marks Obtained		
					C1 (10)	C2 (5)	Total
1	ARPITA PAL	202101040919	210331000013	15	9	5	14
2	ASPIA KHATUN	202101040925	210331000017	15	7	5	12
3	AVIJIT MONDAL	202101040926	210331000018	15	4	2	06
4	DEBDAS MONDAL	202101040934	210331000025	15	7	5	12
5	MD MINHAJUDDIN	202101040955	210331000040	15	6	5	11
6	SANGITA SENGUPTA	202101040982	210331000064	15	8	5	13
7	SUBHAM MONDAL	202101040995	210331000070	15	7	5	12
8	SUSHOBHAN MARDI	202101041003	210331000075	15	7	5	12

DEPARTMENT OF MICROBIOLOGY S. V C. 5

Signature of the Examiner

Suri Vidyasagar College
B.Sc. 5th Semester (Honours) Examination, 2023 (CBCS)
Internal Assessment
Subject: **Microbiology**

Course – DSE1 (Microbes in Sustainable Agriculture and Development)

Sl No.	Name of Examinee	Registration No	Roll No	Full Marks	Marks Obtained		
					C1 (10)	C2 (5)	Total
1	ARPITA PAL	202101040919	210331000013	15	10	5	15
2	ASPIA KHATUN	202101040925	210331000017	15	9	5	14
3	AVIJIT MONDAL	202101040926	210331000018	15	6	2	08
4	DEBDAS MONDAL	202101040934	210331000025	15	8	5	13
5	MD MINHAJUDDIN	202101040955	210331000040	15	9	5	14
6	SANGITA SENGUPTA	202101040982	210331000064	15	10	5	15
7	SUBHAM MONDAL	202101040995	210331000070	15	6	5	11
8	SUSHOBHAN MARDI	202101041003	210331000075	15	6	5	11

Signature of the Examiner

COURSE- DSE2 (Instrumentation and Biotechniques)

Sl No.	Name of Examinee	Registration No	Roll No	Full Marks	Marks Obtained		
					C1 (10)	C2 (5)	Total
1	ARPITA PAL	202101040919	210331000013	15	9	5	14
2	ASPIA KHATUN	202101040925	210331000017	15	9	5	14
3	AVIJIT MONDAL	202101040926	210331000018	15	4	2	06
4	DEBDAS MONDAL	202101040934	210331000025	15	7	5	12
5	MD MINHAJUDDIN	202101040955	210331000040	15	6	5	11
6	SANGITA SENGUPTA	202101040982	210331000064	15	8	5	13
7	SUBHAM MONDAL	202101040995	210331000070	15	7	5	12
8	SUSHOBHAN MARDI	202101041003	210331000075	15	7	5	12

Signature of the Examiner

THE UNIVERSITY OF BURDWAN

B. Sc. Semester VI (Honours) Practical Examination, 2024 (CBCS)

SUBJECT: PHYSIOLOGY

Paper: CC14 (Formation and Excretion of Urine)

Time : 1½ Hours **Full Marks: 20**

The figure in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.
Answer all *questions* as instructed

1. Identify the presence of an abnormal constituent of urine with systematic analysis and confirmatory test. Write both the systematic analysis and confirmatory test. 12
   (Systematic analysis: 8 Marks, Confirmatory test : 2 Marks, Identification: 2 Marks)

2. Lab. Note book 3

3. Viva – Voce 5

B.Sc. Semester VI (CBCS) Examination, 2024

Subject: PHYSIOLOGY

Paper: CC13 (Practical)

Reproduction

Full Marks: 20

Time: 2 hour

Answers should be brief and expressed in own language as far as practicable.

Answer all questions as instructed.

1. Identify the stages of estrous cycle in both the supplied slides with two suitable characters. Write down the procedure of preparation of rat's estrous smear. (Identification with reasons - 4 X 2=8. Procedure - 4) (12)

2. Laboratory Note Book (3)

3. Viva voce (5)

THE UNIVERSITY OF BURDWAN

B. Sc. Semester VI (Honours) Practical Examination, 2024 (CBCS)

SUBJECT: PHYSIOLOGY

Paper: DSE3A (Human Nutrition And Dietetics)

Time : 1½ Hours **Full Marks: 20**

The figure in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all *questions* as instructed

1. Submit Diet Survey Report (hand written) of your family or any family mentioning findings of your study and your suggestions. 15
[Report with result and Suggestion : 15]

2. Viva Voce 5

OR

Paper: DSE3B (Genetics and Molecular Biology)

Time : 1½ Hours **Full Marks: 20**

The figure in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all *questions* as instructed

1. Write down the principle and procedure of DNA gel electrophoresis. Mention the precautions taken while conducting this experiment. (4+8+3)

2. Viva voce (5)

THE UNIVERSITY OF BURDWAN
B. Sc. (H) 6th Semester (CBCS) Examination-2024
Subject: PHYSIOLOGY
Paper- DSE 4A: Toxicology (Practical)

F. M. 20

Time: 2Hours

Figure in the margin indicates full marks.

1. Kymographically record the effects of supplied solution on intestinal movement of albino rat in Dale's bath. Interpret your result. (N1-4, E-4,N2-2, Int-2) 12

2. Laboratory notebook 3

3. Viva 5

THE UNIVERSITY OF BURDWAN

Department of Controller of Examinations Marks Foil

SURI VIDYASAGAR COLLEGE, College Code : 310

UG Semester VI Hons (CBCS) Examinations, 2023 Subject : PHYSIOLOGY

Roll No	CC 13: Reproduction			CC 14: Formation and Excretion of Urine			DSE 3A:Human Nutrition and Dietetics			DSE 4A: Toxicology		
	Theory (40)	Practical (20)	Internal Assessm't (15)	Theory (40)	Practical (20)	Internal Assessm't (15)	Theory (40)	Practical (20)	Internal Assessm't (15)	Theory (40)	Practical (20)	Internal Assessm't (15)
200331000010		17	10		17	12		17	12		16	12
200331000015		16	12		16	12		17	13		15	13
200331000016		16	11		16	13		15	13		16	12
200331000024		17	12		17	13		17	13		15	13
200331000034		18	15		18	15		19	15		18	15
200331000046		18	11		18	13		17	13		15	13
200331000047		16	10		15	12		16	12		14	12
200331000048		16	10		16	12		17	12		14	11
200331000052		19	15		19	15		19	15		19	15
200331000106		19	15		18	15		19	15		19	15
200331000107		18	13		18	15		17	15		18	15
200331000114		17	13		18	15		19	14		17	15

Paper Code	Name of Examiner	Signature of Examiner
CC 13: Reproduction	Dr. Debina Ball	
CC 14: Formation and Excretion of Urine	Dr. Anjit Debnath	Anjit Debnath
DSE 3A:Human Nutrition and Dietetics	Dr. Amal Kumar Pati	
DSE 4A: Toxicology	Dr. Anjit Debnath	

Anjit Debnath
Head
Department of Physiology
Suri Vidyasagar College

THE UNIVERSITY OF BURDWAN

Department of Controller of Examinations Marks Foil

SURI VIDYASAGAR COLLEGE; College Code -310

UG Semester V Hons (CBCS) Examinations, 2023 Subject : PHYSIOLOGY

Roll No	CC 11: Special Senses		CC 12: Endocrinology		DSE 1A:Biological Statistics		DSE 2B: Sports and Exercise Physiology	
	Practical (20)	Internal Assessm'nt (15)	Practical (20)	Internal Assessm'nt (15)	Practical (20)	Internal Assessm'nt (15)	Practical (20)	Internal Assessm'nt (15)
210331000004	19	15	18	15	19	15	19	15
210331000006	16	11	15	11	17	11	17	11
210331000007	18	13	16	13	18	13	17	13
210331000016	17	11	15	11	17	11	17	11
210331000020	18	14	15	14	18	14	17	14
210331000021	19	14	17	14	18	14	18	14
210331000023	20	15	18	15	20	15	20	15
210331000045	20	15	18	15	20	15	20	15
210331000049	19	14	18	14	18	14	18	14
210331000050	18	13	16	13	18	13	17	13
210331000052	19	15	19	15	20	15	20	15
210331000057	18	13	17	13	18	13	17	13
210331000059	AB	AB	AB	AB	AB	AB	AB	AB
210331000068	20	14	16	14	18	14	17	14

Name of Examiner	Signature of Examiner
Dr. Amal Kumar Pati	
Dr. Debkina Ball	Debkina Ball.
Dr. Arijit Debnath	Arijit Debnath

Arijit Debnath

Assistant Professor
Department of Physiology
Suri Vidyasagar College
Suri, Birbhum

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Department of Controller of Examinations Marks Foil

SURI VIDYASAGAR COLLEGE; College Code -310

UG Semester-II Hons (CBCS) Examinations, 2023 Subject : PHYSIOLOGY

Roll No	CC8: Energy Balance, Metabolism and Nutrition			CC9: Gastrointestinal Functions			CC10: Respiration			SEC2B: Hematological Techniques	
	Theory (40)	Practical (20)	Internal Assessm'nt (15)	Theory (40)	Practical (20)	Internal Assessm'nt (15)	Theory (40)	Practical (20)	Internal Assessm'nt (15)	Theory (40)	Internal Assessm'nt (10)
210331000004		19	15		19	15		18	15	17	10
210331000006		17	11		16	12		17	11	27	7
210331000007		19	13		17	13		18	13	33	8
210331000016		18	11		17	12		17	11	30	7
210331000020		17	12		15	12		18	12	37	7
210331000021		18	13		18	12		18	13	33	7
210331000023		19	15		20	15		19	15	35	10
210331000045		19	15		20	15		19	15	38	10
210331000049		18	13		18	13		18	13	35	8
210331000050		18	13		18	13		18	13	35	9
210331000052		19	15		18	15		18	15	34	10
210331000057		18	12		18	11		18	12	36	7
210331000059		18	14		17	14		18	14	35	8
210331000068		18	13		19	13		19	13	39	8

Paper Code	Name of Examiner	Signature of Examiner
CC8: Energy Balance, Metabolism and Nutrition	Dr. Amal Kumar Pan	
CC9: Gastrointestinal Functions	Dr. Debkiss Bell	
CC10: Respiration SEC2B: Hematological Techniques	Dr. Anjit Debnath	Anjit Debnath

Anjit Debnath

THE UNIVERSITY OF BURDWAN

Department of Controller of Examinations Marks Foil

SURI VIDYASAGAR COLLEGE; College Code -310

UG Semester III Hons (CBCS) Examinations, 2023 Subject : PHYSIOLOGY

Roll No		CC5:Circulating Body Fluids			CC6:Circulation			CC7:Functions of the Nervous System			SEC-1A:Detection of Food Additives, Adulterants	
		Theory (40)	Practical (20)	Internal Assessment (15)	Theory (40)	Practical (20)	Internal Assessment (15)	Theory (40)	Practical (20)	Internal Assessment (15)	Theory (35)	Internal Assessment (15)
2103310000053	Ritavan Thakur		18	14		17	15		18	14	35	10
2203310000019	Bidisha Mondal		19	15		18	15		20	15	31	10
2203310000020	Bijoya Saha		18	15		17	15		18	15	34	10
2203310000060	Promila Mondal		17	13		15	13		18	13	18	8
2203310000077	Sk. Abdus Sattar		15	13		14	13		16	13	30	8
2203310000088	Suman Saha		19	15		17	15		19	15	36	10
2203310000090	Supriyo Mondal		17	13		14	13		16	13	28	8
2203310000093	Tasneen Fatema		15	12		11	12		15	12	19	7

Name of the Examiner (Paperwise)		
Paper Code	**Name of Examiner**	**Signature of Examiner**
CC5:Circulating Body Fluids	Dr. Arijit Debnath	Arijit Debnath
CC6:Circulation	Dr. Amal Kumar Pari	
CC7:Functions of the Nervous System	Dr. Debtina Ball	

Arijit Debnath

THE UNIVERSITY OF BURDWAN

Department of Controller of Examinations

Marks Roll

SURI VIDYASAGAR COLLEGE, College Code : 310

UG Semester II Hons (CBCS) Examinations, 2023 Subject : PHYSIOLOGY (CC3 AND CC4)

Roll No		CC3: Physiology of Nerve and Muscle Cells			CC4: Chemistry of Biomolecules		
		Theory	Practical	Internal Assessment	Theory	Practical	Internal Assessment
210331(000053)			18	15		20	15
220331(000019)			17	15		19	15
220331(000020)			16	13		18	14
220331(000060)			16	13		16	14
220331(000077)			13	12		16	13
220331(000088)			18	15		18	15
220331(000090)			12	12		12	12
220331(000093)			12	13		16	13

Name of the Examiner (Paperwise)		
Paper Code	Name of Examiner	Signature of Examiner
CC3: Physiology of Nerve and Muscle Cells	Dr. Arijit Debnath	Arijit Debnath
CC4: Chemistry of Biomolecules	Dr. Amal Kumar Pari	
	Dr. Deblina Ball	

Arijit Debnath

Head
Department of Physiology
Suri Vidyasagar College
Suri, Birbhum

THE UNIVERSITY OF BURDWAN

Department of Controller of Examinations Marks Foil

SURI VIDYASAGAR COLLEGE ; College Code -310

UG Semester 4th Gen/Generic (CBCS) Examinations, 2023

Subject : PHYSIOLOGY (CC1D/GE4)

Roll No	CC1D: Endocrinology, Renal Physiology, skin and Body Temperature Regulation									SEC 2B: Hematological Techniques	
	Theory (40)	Practical (20)	Internal Assessment (15)							Theory (40)	Internal Assessment (10)
210331(XXXX)5		19	14								
210331(XXXX)6		19	14								
210331(XXX)20		17	13								
210331(XXX)31		16	14								
210331(XXX)50		15	13								
210331(XXX)73		19	15								
210831(XXXX)6		18	12								
210831(XXXX)9		AB	AB								
210831(XXX)12		16	10								
210831(XXX)17		13	12								
210831(XXX)19		16	10								
210831(XXX)59		17	14								

Paper Code	Name of Examiner	Signature of Examiner
CC1D: Endocrinology, Renal Physiology, skin and Body Temperature Regulation		

THE UNIVERSITY OF BURDWAN

Department of Controller of Examinations Marks Foil

SURI VIDYASAGAR COLLEGE; College Code -310

UG Semester III General / Generic (CBCS) Examinations, 2023

Subject : PHYSIOLOGY

Roll No		CC-1C/ GE-3: Respiratory and Cardiovascular Physiology		
		Theory (40)	Practical (20)	Internal Assessment (15)
220631010001			16	14
220631010010			15	14
220631010013			16	14
220631010016			16	15
220631010020			18	15
220331000011			12	13
220331000012			15	14
220331000023			19	15
220331000036			17	14
220331000048			14	12
220331000053			14	13
220331000058			19	15
220331000061			19	14
220331000068			13	13
220331000074			17	14
220331000075			Ab	12
220331000082			14	12
220331000095			12	13

Name of the Examiner (Paperwise)		
Paper Code	Name of Examiner	
CC-1C/ GE-3: Respiratory and Cardiovascular Physiology	Mrs Nupur Paul	Nupur Paul

Arijit Debnath
Head
Department of Physiology
Suri Vidyasagar College
Suri, Birbhum

THE UNIVERSITY OF BURDWAN

B.Sc. Semester IV (General) Practical Examination - 2023 (CBCS)

Subject: PHYSIOLOGY

Paper: CC- 1 D/ GE 4

(Normal and Abnormal Constituents of Urine)

Time: 2 Hours. **Full Marks: 20**

The figures in the margin indicates full marks.

1. Identify the abnormal constituents of urine which are present in your supplied sample with proper systemic analysis. 12

Marks Distribution: Systemic Analysis: 8 Marks, Confirmatory Test: 2 Marks, Correct Identification: 2 Marks.

2. Viva voce. 5

3. Laboratory Note Book. 3

The University of Burdwan
B.Sc. Sem II General Practical Examination - 2024 (NEP)
Subject : PHYSIOLOGY (MINOR)
Course Code : PHSL- 2021 (Circulating Body Fluids)
Time : 2 Hours, F. M. : 20
(The figures in the margin indicate full marks.)

1. Prepare a blood film of your own blood on a clean glass slide, stain it suitably and focus a three lobed Neutrophil under high power of compound microscope. Draw your observation in your Answer Script. (12)

(Preparation and staining - 8, Focusing and Identification -2, Drawing and labeling - 2)

একটি পরিষ্কার কাঁচের স্লাইডে তোমার নিজের রক্তের রক্তপ্রলেপ প্রস্তুত করে সেটি সঠিকভাবে রঞ্জিত কর। তারপর স্লাইডটি যৌগিক অনুবীক্ষণ যন্ত্রের সাহায্যে একটি তিন লতি যুক্ত নিউট্রোফিল ফোকাস করে দেখাও। তোমার পর্যবেক্ষনের একটি চিহ্নিত চিত্র উত্তরপত্রে আঁকো।

2. Laboratory Note Book. (প্রাকটিক্যাল খাতা) (3)

3. Viva voce. (মৌখিক প্রশ্ন) (5)

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-I (Major / Minor) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Paper- MATH1011 / MATH1021

Answer any five questions- **[5x2=10]**

1. Prove that the curve $y(x^2 + a^2) = a^2x$ has three points of inflexion which lie on a straight line.
2. Find the envelope of the straight line $y = mx + a\sqrt{1 + m^2}$, m being the parameter.
3. Find a reduction formula for $I_n = \int \tan x dx$. Then, evaluate $\int_0^{\pi/4} \tan^3 x dx$.
4. Find the length of the arc of the parabola $y^2 = 4x$ cut off by its latus rectum.
5. Find the angle of rotation of the axes for which the equation $x^2 - y^2 = a^2$ will reduces to $xy = c^2$. Determine c^2.
6. Reduce the equation $8x^2 - 12xy + 17y^2 - 4x - 22y + 13 = 0$ into normal form and discuss its nature.
7. If $\vec{\alpha} = t^2\hat{\imath} + t\hat{\jmath} + (2t + 1)\hat{k}, \vec{\beta} = (2t - 3)\hat{\imath} + \hat{\jmath} - t\hat{k}$ then find $\frac{d}{dt}\left(\vec{\alpha} \times \frac{d\vec{\beta}}{dt}\right)$ at $t = 2$.
8. Prove that $\left[\vec{\alpha} + \vec{\beta}, \vec{\beta} + \vec{\gamma}, \vec{\gamma} + \vec{\alpha}\right] = 2[\vec{\alpha}\vec{\beta}\vec{\gamma}]$.
9. If $y = Cos\ (10\ cos^{-1}x)$, show that $(1 - x^2)y_{12} = 21xy_{11}$.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-I (Major / Minor) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Paper- MATH1011 / MATH1021

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SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-I (MAJOR) Internal Assessment, 2023

Subject : Mathematics (SEC: Graph Theory)

Time : 2 days **Full Marks : 10**

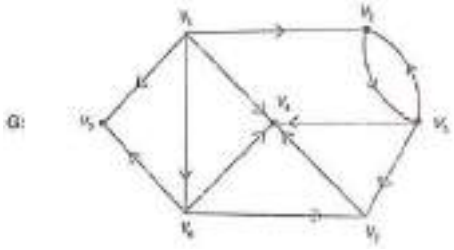
Answer any five questions- **Paper- MATH1051** **[5x2=10]**

1. Define path and cycle of a graph.
2. Define Hamiltonian circuit of a graph.
3. Draw a graph with at least three loop and a pair of parallel edges.
4. Is every path a trail? Explain.
5. Use Brute-Force method solve the following Travelling-salesmen problem

	A	B	C	D
A	-	3	5	4
B	3	-	7	3
C	5	7	-	6
D	4	3	6	-

6. Define Di-graph and Pseudo graph. Give examples.

7. Find the in-degree and the out-degree of each vertex in the graph G.



8. Show that the maximum number of edges in a simple graph with n vertices is $\frac{n(n-1)}{2}$.

9. Prove that, in a non-directed graph, the number of vertices of odd degree vertices is even.

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-III (General and Generic) Internal Assessment, 2023

Subject: Mathematics

Time : 2 days **Full Marks : 10**

Answer any five questions- **Paper- CC1C/GE-3** **[2x5]**

1. Define countable sets. Show that the set of integers Z is countable.
2. Define closed set. Is arbitrary union of closed sets in R is closed? Justify your answer.
3. Prove that the sequence $\{x_n\}$ is monotonic increasing and bounded where $x_n = \frac{4n+3}{n+2}$.
4. If $x_n = \frac{2n+5}{6n-11}$ Find the least integer m,s.t $\left|x_n - \frac{1}{3}\right| < \frac{1}{10^4}$.
5. What do you mean by convergent and divergent of a series?
6. Test the series $\sum u_n = \frac{1}{2} + \frac{2}{3} + \frac{3}{4} + \frac{4}{5} \ldots + \frac{n}{n+1} + \cdots \infty$, convergent or divergent.
7. Let $f_n(x) = x^n, x \in [0,1]$. Show that the sequence of functions $\{f_n\}$ is not uniformly convergent on $[0,1]$.
8. Show that the series of functions $\sum_{n=1}^{\infty} \frac{x^n}{n!}$ is uniformly convergent on $[-1,1]$.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-III (Honours and General) Internal Assessment, 2023
Subject : Mathematics

Time : 2 days **Full Marks : 10**

Answer any five questions- **Paper- SEC11 (Logic and Sets)** **[5x2=10]**

1. Construct a truth table for the conjunction of "$n > 3$" and "$n < 10$" when $n \in N$.
2. Find the truth table for $p \wedge (q \vee r)$.
3. Show that $p \wedge q \rightarrow p$ is tautology.
4. Show that $(\sim p \wedge (\sim q \wedge r) \vee (q \wedge r) \vee (p \wedge r) \Leftrightarrow r$.
5. If for two sets $A \; and \; B, n(A) = 17$, $n(A \cup B) = 2$, then find $n(A - B), n(B), n(B - A)$.
6. Let R be the relation in $S = (2,3,4,5,6)$ defined by xRy when $|x - y|$ is divisible by 3. Is R an equivalence relation?
7. In an examination 45% of the candidate have passed in English, 40% have passed in Bengali, while 30% have passed in both the subjects. Find total number of candidates if 90 of them have failed in both the subject.
8. For any two sets A and B Prove that A$\cap$ $(B - A)$=$\emptyset$

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-III (Honours and General) Internal Assessment, 2023
Subject : Mathematics

Time : 2 days **Full Marks : 10**

Answer any five questions- **Paper- SEC13 (Integral Calculus)** **[5x2=10]**

1. Find $f(x)$ if $f'(x) = e^x(sinx - cosx)$ and $f(0) = 1$.
2. Integrate $\int \frac{(x+4)}{(x+13)^{10}} e^x dx$.
3. Integrate $\int \frac{dx}{5+4cosx}$.
4. Integrate $\int \frac{e^{-x}dx}{e^x+2e^{-x}+3}$.
5. Obtain reduction formula for $\int tan^n x dx$.
6. Obtain reduction formula for $\int x^m(1-x)^n dx$.
7. Show that $\int_0^{\frac{\pi}{2}} \frac{sinx}{sinx+cosx} dx = \frac{\pi}{4}$.
8. Find the area bounded by the parabolas $x^2 = 4y$ and $y^2 = 4x$.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-III (Honours) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- CC05** **[5x2=10]**

1. Show that $\lim_{x\to 0} sgn\ x$ does not exist.
2. Use Cauchy's principle to prove that $\lim_{x\to 0} cos\ \frac{1}{x}$ does not exist.
3. Define metric space. What is discrete metric space?
4. Let X be a non-empty set. Prove that a function $f: XxX \to R$ is a metric on X if and only if the following conditions are satisfied:
   a. $f(x,y) = 0$ iff $x = y\ (x,y \in X)$
   b. $f(x,y) \leq f(x,z) + f(y,z), \forall x,y,z \in X.$
5. If $f(X) = \frac{x(e^{\frac{1}{x}} - e^{\frac{-1}{x}})}{e^{\frac{1}{x}} + e^{\frac{-1}{x}}}$ (when $x \neq 0$)
   $= 0$ (when $x = 0$)
   Examine whether $f(x)$ is derivable or not at $x = 0$.
6. Is Rolle's Theorem applicable? If so, verify it for $f(x) = x(x+3)e^{\frac{-x}{2}}\ in\ [-3,0]$
7. Show that the function f defined by $f(x) = [x]$ in [0,1] is not the derivative of any function.
8. Prove that, $tanx > x\ when\ 0 < x < \frac{\pi}{2}$.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-III (Honours) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- CC06** **[5x2=10]**

1. In a group (G,o), prove that $(aob)^{-1} = b^{-1}\ o\ a^{-1}$ for all $a,b \in G$.
2. Show that the unit circle $S = \{z \in C : |z| = 1\}$ in the complex plane C forms a commulative group under multiplication of complex numbers.
3. If (G,o) be a group in which $(aob)^3 = a^3ob^3$ and $(aob)^5 = a^5ob^5$ for all $a,b \in G$, prove that the group is abelian.
4. Let G be a group and $a \in G$. If $o(a) = n$ and $a^m = e$, then prove that n is a divisor of m.
5. If (G,o) be a finite group with identity e, prove that there exists a positive integer m such that $a^m = e$ holds for all $a \in G$.
6. Find all elements of order 5 in the group $(Z_{30}, +)$.
7. If a be an element of a group and $o(a) = 20$, find the order of the element a^8.
8. If G be a finite abelian group and $a,b \in G$, then show that $o(ab)$ is a divisor of l.c.m. of $o(a)$ and $o(b)$.

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-III (Honours) Internal Assessment, 2023

Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- CC07** **[5x2=10]**

1. Write down the approximate representation of $\frac{2}{3}$ correct to four significant figures and then find (a) Absolute error, (b) Relative error, (c) Relative percentage error.
2. If $y = 4x^6 - 5x$, find the percentage error in y at $x = 1$, if the error in $x = 0.04$.
3. Deduced Newton's iterative formula for finding q-th root of a positive real number R.
4. Find the condition for convergence of Newton-Raphson Method.
5. State and prove, Fundamental Theorem of Difference Calculus.
6. Show that, $\Delta \cdot \nabla = \Delta - \nabla$.
7. Find the value of y at $x = 1.6$ using the following table.

x	1.0	1.5	2.0	2.5	3.0
$y = f(x)$	0.11246	0.14032	0.16800	0.19547	0.22270

8. Evaluate $y = e^{2x}$ for $x = 0.37$ using the given values.

x	0.00	0.10	0.20	0.30	0.40
$y = e^{2x}$	1.0000	1.2214	1.4918	1.8221	2.2255

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-III (Honours) Internal Assessment, 2023

Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- CC07** **[5x2=10]**

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$y = e^{2x}$	1.0000	1.2214	1.4918	1.8221	2.2255

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-V (General) Internal Assessment, 2023

Subject : Mathematics

Time : 2 days **Paper- DSE1A1** **Full Marks : 10**

Answer any five questions- **[5x2]**

1. Define basis of a vector space. Show that the set of vectors $\{(1,2,2,), (1,-1,2), (1,0,1)\}$ forms a basis in R^3.

2. Determine the subspace of R^3 spanned by the vectors $(1,2,3)$ and $(3,1,0)$. Examine whether the vectors $(2,1,3)$ and $(-1,3,6)$ are in the subspace.

3. Solve

$$2x - 3y + 4z = 3$$
$$3x - y + 2z = 4$$
$$x + 2y + 3z = 6$$

using Cramer's rule

4. Find the eigen values and the corresponding eigen vectors of the matrix

$$\begin{pmatrix} 2 & 2 & 1 \\ 1 & 3 & 1 \\ 1 & 2 & 2 \end{pmatrix}$$

5. By elementary row operations find the inverse of the matrix: $A = \begin{pmatrix} 2 & 1 & -1 \\ 0 & 1 & 2 \\ 1 & 3 & -1 \end{pmatrix}$.

6. Check whether the matrix $\begin{pmatrix} 2 & 1 \\ 0 & 2 \end{pmatrix}$ is diagonalisable or not.

7. Write down the necessary and sufficient condition for the inverse of a square matrix A exists.

8. What is orthogonal matrix? Give an example.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-V (Honours) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- CC11** **[5x2=10]**

1. Eliminate arbitrary constants a and b from $z = (x-a)^2 + (y-b)^2$ to form the PDE.
2. Form a partial differential equation by eliminating the arbitrary function φ from
   $\varphi(x + y + z, x^2 + y^2 - z^2) = 0$.
3. Eliminate the arbitrary functions f and F from $y = f(x - at) + F(x + at)$.
4. Solve $xzp + yzq = xy$.
5. Solve $(mz - ny)p + (nx - lz)q = ly - mx$.
6. Classify the following PDE:
   $xyr - (x^2 - y^2)s - xyt + py - qx = 2(x^2 - y^2)$.
7. Find the characteristics of $y^2r - x^2t = 0$.
8. Using the method of separation of variables, solve $\frac{\partial u}{\partial x} = 2\frac{\partial u}{\partial t} + u$, where $u(x, 0) = 6e^{-3x}$.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-V (Honours) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

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   $\varphi(x + y + z, x^2 + y^2 - z^2) = 0$.
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4. Solve $xzp + yzq = xy$.
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SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-V (Honours) Internal Assessment, 2023

Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- DSE11** **[5x2=10]**

1. Solve by graphical method:

Minimize $z = x_1 + x_2$

Subject to $5x_1 + 9x_2 \leq 45$

$x_1 + x_2 \geq 2$

$x_2 \leq 4$, and $x_1, x_2 \geq 0$.

2. Define a convex set. Prove that, the set of all convex combinations of a finite number of points is a convex set.
3. Determine the value of α, for which the following game is strictly determinable.

α	7	3
-2	α	-8
-3	4	α

4. Solve the game with the following payoff matrix.

5	1
3	4

5. Apply N-W corner rule to find the initial Basic Feasible solution to the following Transportation problem.

	A	B	C	
X	4	3	2	10
Y	1	5	0	13
Z	3	8	6	12
	8	5	4	

6. Find the minimum cost solution for the assignment problem.

	A	B	C	D
X	4	5	3	2
Y	1	4	-2	3
Z	4	2	1	-5

7. Construct the dual of the following LPP: $Max\ z = 3a + 4b$

$Subject\ to\ a + b \leq 12$

$2a + 3b \leq 21$

$a \leq 8$

$b \leq 6\ \ a, b \geq 0$

8.

	A	B	C	
X	50	30	220	1
Y	90	45	170	3
Z	250	200	50	4
	4	2	2	

The initial Basic Feasible solution of the above transportation problem is x_{12}=1, x_{21}=2 , x_{22}=1 ,x_{31}=2 ,x_{33}=2. Find the optimal solution of the transportation problem.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-V (Honours) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- DSE21** **[5x2=10]**

1. Prove that for any three events A, B and C; $P(ABC) \geq P(A) + P(B) + P(C) - 2$.
2. Prove that the distribution function $F(x)$ of a random variable X is a monotonically non-decreasing Function.
3. A radioactive source emits on the average 2.5 particles /sec calculate the probability that 2 or more particles will be emitted in an interval of 4 seconds.
4. If X is a normal (m, σ) variate, prove that $P(a < X \leq b) = \Phi\left(\frac{b-m}{\sigma}\right) - \Phi\left(\frac{a-m}{\sigma}\right)$ and $P(|X - m| > a\sigma) = 2[1 - \Phi(a)]$.
5. If X is uniformly distributed in the interval $(-1,1)$, find the distribution of $|X|$.
6. The radius X of a circle is uniformly distributed in $(3,4)$. Find the mean and variance of the circumference of the circle.
7. A continuous distribution has probability density function $f(x) = ae^{-ax}, 0 < x < \infty,\ a > 0$. Calculate moment generating function and hence find k-th order raw moment α_k .
8. Find the constant k such that the function $f(x)$ given by

$$f(x) = \begin{cases} k|x| & -2 < x < 2 \\ 0 & elsewhere \end{cases}$$

is a possible probability density function and then find its distribution function.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-V (Honours) Internal Assessment, 2023
Subject : Mathematics

Time : 45 Minutes **Full Marks : 10**

Answer any five questions- **Paper- DSE21** **[5x2=10]**

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5. If X is uniformly distributed in the interval $(-1,1)$, find the distribution of $|X|$.
6. The radius X of a circle is uniformly distributed in $(3,4)$. Find the mean and variance of the circumference of the circle.
7. A continuous distribution has probability density function $f(x) = ae^{-ax}, 0 < x < \infty,\ a > 0$. Calculate moment generating function and hence find k-th order raw moment α_k .
8. Find the constant k such that the function $f(x)$ given by

$$f(x) = \begin{cases} k|x| & -2 < x < 2 \\ 0 & elsewhere \end{cases}$$

is a possible probability density function and then find its distribution function.

SURI VIDYA SAGAR COLLEGE

SEMESTER- I MAJOR (CCFUP) INTERNAL ASSESSMENT (DECEMBER) 2023 **MATH-1011**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained		
				C-1	Attendance	Total
4 YEARS						
1	AFNAN KHATUN		15	8	4	12
2	ARIJIT ROY		15	AB	0	0
3	DEBJIT MAL		15	10	5	15
4	DIPA MONDAL		15	AB	0	0
5	HIRANMOY BISWAS		15	8	3	11
6	NARGIS SULTANA		15	AB	0	0
7	NIRMALYA PAN		15	8	4	12
8	NITA MONDAL		15	AB	0	0
9	PIJUSH MONDAL		15	10	4	14
10	RAJESH MONDAL		15	AB	0	0
11	RUPANKAR PAL		15	10	5	15
12	SAHELI GHOSH		15	10	4	14
13	SAIKAT KUMAR DAS		15	10	3	13
14	SAMIT KUMAR DAS		15	10	5	15
15	SANDIP GARAI		15	10	5	15
16	SAYANI MONDAL		15	7	5	12
17	SHAMANTA GARAI		15	10	5	15
18	SHANTANU DEY		15	10	5	15
19	SHREYA DAS		15	AB	0	0
20	TAMANNA AKTARI		15	9	4	13
21	TISTA MONDAL		15	10	5	15
3 YEARS						
22	ASHUTOSH KARMAKAR		15	AB	0	0
23	JHUMPA MANDAL		15	AB	0	0
24	RUDRANATH SAHA		15	AB	0	0
25	TANDRA MONDAL		15	AB	0	0

Date: 16.01.2024

Signature of HOD

SURI VIDYA SAGAR COLLEGE

SEMESTER- I MINOR (CCFUP) INTERNAL ASSESSMENT (DECEMBER) 2023 **MATH-1021**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained		
				C-1	Attendance	Total
1	AKASH MONDAL		15	AB	0	0
2	ALIFA KHATUN		15	7	3	10
3	ANJAN DHIBAR		15	10	5	15
4	DISHA MAL		15	7	3	10
5	JANARDAN PAL		15	10	5	15
6	MD HASANUR RAHAMAN		15	8	3	11
7	MD JEESHAN MANSURI		15	7	5	12
8	MD SUBHA PATUA		15	6	4	10
9	MOLLA TOUFIK AHAMED		15	7	3	10
10	SANCHARI MONDAL		15	9	5	14
11	SANJIB MONDAL		15	AB	0	0
12	SHARMISTHA CHATTERJEE		15	10	5	15
13	SHATARUPA SUTRADHAR		15	10	5	15
14	SHRABANI SUTRADHAR		15	6	4	10
15	SHRINKHAL ROY		15	AB	0	0
16	SK WASHIM AKRAM		15	6	4	10
17	SOUMAYAN BANERJEE		15	10	5	15
18	SOUMYADEEP GHOSH		15	8	4	12
19	SRIJA MAHATA		15	9	5	14
20	SUDIPTA ROWNI		15	8	5	13
21	SUJOY BAGDI		15	10	5	15

Date: 16.01.2024

Signature of HOD

SURI VIDYA SAGAR COLLEGE

SEMESTER- III (CBCS) INTERNAL ASSESSMENT (GENERAL) (DECEMBER) 2023 **CC-1C**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained		
				C-1	Attendance	Total
1	ANIRBAN MANDAL	220631010003	15	9	4	13
2	JUI CHOWDHURY	220631010009	15	9	4	13
3	MD MEHEFUZ ANAM	220631010014	15	8	4	12
4	MOJAHIDUL ALAM	220631010017	15	8	4	12
5	PAYEL CHOWDHURY	220631010019	15	8	4	12
6	RANAJIT MONDAL	220631010021	15	9	4	13
7	SAFIUR RAHAMAN		AB	AB	0	0
8	SK HABIB	220631010026	15	8	4	12
9	SNEHA BISWAS	220631010030	15	8	4	12
10	SUBRATA DALUI	220631010035	15	8	4	12

Date: 24.01.2024

Signature of HOD

SURI VIDYA SAGAR COLLEGE

SEMESTER- III (CBCS) INTERNAL ASSESSMENT (GENERIC) (DECEMBERE) 2023 **GE-3**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained		
				C-1	Attendance	Total
1	ABDUL ASIF	220331000001	15	8	4	12
2	RIKTA BHAKTA	220331000062	15	8	4	12
3	SK GIASUDDIN	FROM S N COLLEGE	15	8	4	12

Date: 24.01.2024

Signature of HOD

SURI VIDYA SAGAR COLLEGE

SEMESTER- III (CBCS) HONOURS INTERNAL ASSESSMENT (DECEMBER) 2023 **CC-05**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained		
				C-1	Attendance	Total
1	ANUP GARAI	220331000005	15	6	5	11
2	ARITRA PANDIT	220331000009	15	9	5	14
3	ARPITA RAKSHIT	220331000014	15	7	5	12
4	BABAI SAHA	220331000015	15	6	4	10
5	CHANDRADEB MONDAL	220331000022	15	AB	0	0
6	FIRDOUS KHATUN	220331000032	15	8	5	13
7	JANMEJOY GHOSH	220331000035	15	7	5	12
8	KALYAN DHIBAR	220331000038	15	6	4	10
9	KEKA LAHA	220331000040	15	7	5	12
10	MD SOHEL AMIN	220331000044	15	6	4	10
11	MOUSUMI NANDI	220331000047	15	9	5	14
12	PAPRI DEVNATH	220331000050	15	7	4	11
13	PAYEL CHOWDHURY	220331000052	15	8	4	12
14	PAYEL GHOSH	220331000054	15	7	4	11
15	PRADIP DAS	220331000055	15	AB	0	0
16	PRAKASH MONDAL	220331000056	15	6	4	10
17	PRIYANKA GARAI	220331000059	15	7	5	12
18	SALAUDDIN MONDAL	220331000065	15	6	4	10
19	SAYAN KUNDU	220331000072	15	7	5	12
20	SHRABANI DAS	220331000073	15	7	5	12
21	SHUVAJIT MONDAL	220331000076	15	7	5	12
22	SOUVIK CHOWDHURY	220331000081	15	6	5	11
23	SUBHAM SEN	220331000086	15	9	5	14
24	SUVAJIT CHAKRABORTY	220331000091	15	6	4	10

Date: 16.01.2024

Signature of HOD

SURI VIDYA SAGAR COLLEGE

SEMESTER- III (CBCS) HONOURS INTERNAL ASSESSMENT (DECEMBER) 2023 **CC-06**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained		
				C-1	Attendance	Total
1	ANUP GARAI	220331000005	15	8	5	13
2	ARITRA PANDIT	220331000009	15	10	5	15
3	ARPITA RAKSHIT	220331000014	15	10	5	15
4	BABAI SAHA	220331000015	15	10	4	14
5	CHANDRADEB MONDAL	220331000022	15	AB	0	0
6	FIRDOUS KHATUN	220331000032	15	10	5	15
7	JANMEJOY GHOSH	220331000035	15	8	5	13
8	KALYAN DHIBAR	220331000038	15	10	4	14
9	KEKA LAHA	220331000040	15	8	5	13
10	MD SOHEL AMIN	220331000044	15	9	4	13
11	MOUSUMI NANDI	220331000047	15	10	5	15
12	PAPRI DEVNATH	220331000050	15	10	4	14
13	PAYEL CHOWDHURY	220331000052	15	10	4	14
14	PAYEL GHOSH	220331000054	15	9	4	13
15	PRADIP DAS	220331000055	15	AB	0	0
16	PRAKASH MONDAL	220331000056	15	8	4	12
17	PRIYANKA GARAI	220331000059	15	9	5	14
18	SALAUDDIN MONDAL	220331000065	15	9	4	13
19	SAYAN KUNDU	220331000072	15	8	5	13
20	SHRABANI DAS	220331000073	15	9	5	14
21	SHUVAJIT MONDAL	220331000076	15	8	5	13
22	SOUVIK CHOWDHURY	220331000081	15	8	5	13
23	SUBHAM SEN	220331000086	15	10	5	15
24	SUVAJIT CHAKRABORTY	220331000091	15	7	4	11

Date: 16.01.2024

Signature of HOD

SURI VIDYA SAGAR COLLEGE

SEMESTER- III (CBCS) HONOURS INTERNAL ASSESSMENT (DECEMBER) 2023 **CC-07**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained		
				C-1	Attendance	Total
1	ANUP GARAI	220331000005	15	9	5	14
2	ARITRA PANDIT	220331000009	15	10	5	15
3	ARPITA RAKSHIT	220331000014	15	10	5	15
4	BABAI SAHA	220331000015	15	10	4	14
5	CHANDRADEB MONDAL	220331000022	15	AB	0	0
6	FIRDOUS KHATUN	220331000032	15	9	5	14
7	JANMEJOY GHOSH	220331000035	15	10	5	15
8	KALYAN DHIBAR	220331000038	15	10	4	14
9	KEKA LAHA	220331000040	15	8	5	13
10	MD SOHEL AMIN	220331000044	15	9	4	13
11	MOUSUMI NANDI	220331000047	15	10	5	15
12	PAPRI DEVNATH	220331000050	15	10	4	14
13	PAYEL CHOWDHURY	220331000052	15	10	4	14
14	PAYEL GHOSH	220331000054	15	9	4	13
15	PRADIP DAS	220331000055	15	AB	0	0
16	PRAKASH MONDAL	220331000056	15	10	4	14
17	PRIYANKA GARAI	220331000059	15	8	5	13
18	SALAUDDIN MONDAL	220331000065	15	10	4	14
19	SAYAN KUNDU	220331000072	15	10	5	15
20	SHRABANI DAS	220331000073	15	9	5	14
21	SHUVAJIT MONDAL	220331000076	15	9	5	14
22	SOUVIK CHOWDHURY	220331000081	15	10	5	15
23	SUBHAM SEN	220331000086	15	10	5	15
24	SUVAJIT CHAKRABORTY	220331000091	15	8	4	12

Date: 16.01.2024

Signature of HOD

SURI VIDYA SAGAR COLLEGE

SEMESTER- III (CBCS) HONOURS INTERNAL ASSESSMENT (DECEMBER) 2023 **SEC-11**

DEPARTMENT OF MATHEMATICS

Sl.No.	Student Name	University Roll	Total Internal	Marks Obtained	
				C-1	Total
1	ANUP GARAI	220331000005	10	8	8
2	ARITRA PANDIT	220331000009	10	9	9
3	ARPITA RAKSHIT	220331000014	10	10	10
4	BABAI SAHA	220331000015	10	9	9
5	CHANDRADEB MONDAL	220331000022	10	AB	0
6	FIRDOUS KHATUN	220331000032	10	10	10
7	JANMEJOY GHOSH	220331000035	10	9	9
8	KALYAN DHIBAR	220331000038	10	9	9
9	KEKA LAHA	220331000040	10	10	10
10	MD SOHEL AMIN	220331000044	10	9	9
11	MOUSUMI NANDI	220331000047	10	10	10
12	PAPRI DEVNATH	220331000050	10	10	10
13	PAYEL CHOWDHURY	220331000052	10	9	9
14	PAYEL GHOSH	220331000054	10	9	9
15	PRADIP DAS	220331000055	10	AB	0
16	PRAKASH MONDAL	220331000056	10	10	10
17	PRIYANKA GARAI	220331000059	10	9	9
18	SALAUDDIN MONDAL	220331000065	10	9	9
19	SAYAN KUNDU	220331000072	10	9	9
20	SHRABANI DAS	220331000073	10	9	9
21	SHUVAJIT MONDAL	220331000076	10	9	9
22	SOUVIK CHOWDHURY	220331000081	10	9	9
23	SUBHAM SEN	220331000086	10	9	9
24	SUVAJIT CHAKRABORTY	220331000091	10	9	9

Date: 24.01.2024

Signature of HOD

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-IV (Honours) Internal Assessment, 2024

Subject : Mathematics

Time : 45 Minutes **Paper- CC08** **Full Marks : 10**

Answer any five questions- **[2x5=10]**

1. Define pointwise convergence of a sequence of functions. Show that the sequence of functions $\{f_n\}$, where $f_n(x) = x^n$ is pointwise convergent on $(-1, 1]$.
2. A sequence of functions $\{f_n\}$ is defined by $f_n(x) = 1 - \frac{x^n}{n}; 0 \leq x \leq 1$. Show that the sequence $\{f_n\}$ is uniformly convergent on $[0, 1]$.
3. Prove that the series $x^4 + \frac{x^4}{1+x^4} + \frac{x^4}{(1+x^4)^2} + \cdots, x \in [0,1]$ is not uniformly convergent on [0,1].
4. State Abel's Test for series of functions.
5. Show that the Second Mean Value theorem (Weierstrass form) is applicable to $\int_a^b \frac{\sin x}{x} dx$ where 0<a<b<∞. Also prove that $\left|\int_a^b \frac{sinx}{x} dx\right| < \frac{4}{a}$.
6. A function f is defined on [0,3] by f(x)=[x] , xϵ[0,3]. Show that f is integrable on [0,3], but $\int_0^3 f$ cannot be evaluated by Fundamental theorem.
7. Examine the convergence of the improper integral $\int_1^\infty \frac{1}{x^{\frac{1}{2}}((1+x)^{\frac{1}{4}}}$dx.
8. Prove that B(m+1,n)=$\frac{m}{m+n}$B(m+n) m>0,n>0.

Time : 45 Minutes **Paper- CC09** **Full Marks : 10**

Answer any five questions- **[2x5=10]**

1. Verify that the double limit $\lim_{\substack{x \to 0 \\ y \to 0}} \frac{x+y}{x-y}$ does not exist. But both repeated limits exist.
2. If $u = f(x, y)$ be a homogeneous function of two independent variables x,y of degree n, then prove that $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = nu$.
3. If $u = tan^{-1}\frac{x^3+y^3}{x-y}$, then prove that $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = \sin 2u$.
4. Prove that $\vec{\nabla} \times \left(\vec{\nabla} \times \vec{f}\right) = \vec{\nabla}\left(\vec{\nabla}.\vec{f}\right) - \nabla^2\vec{f}$
5. Prove that $\vec{F} = (y^2 \cos x + z^3)\hat{\imath} + (2y \sin x - 4)\hat{\jmath} + (3xz^2 + 2)\hat{k}$ is a conservative force field.
6. Find the work done by the force $\vec{F} = 2xy\hat{\imath} - 4z\hat{\jmath} + 5x\hat{k}$ along the curve $x = t^2, y = 2t + 1, z = t^3$ from $t = 1$ to $= 2$.
7. If $\vec{F} = (2y + 3)\hat{\imath} + xz\hat{\jmath} + (yz - x)\hat{k}$, evaluate the line integral $\int_c \vec{F}.d\vec{r}$ along the line joining the points (0,0,0) to (2,1,1).
8. If $\vec{F} = (2x^2 - 3z)\hat{\imath} - 2xy\hat{\jmath} - 4x\hat{k}$ then evaluate $\iiint_V \vec{\nabla} \cdot \vec{F}dV$, where V is the volume of the region bounded by the plane $x = 0, y = 0, z = 0, 2x + 2y + z = 4$.

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-IV (Honours) Internal Assessment, 2024

Subject : Mathematics

Time : 45 Minutes **Paper- CC10** **Full Marks : 10**

Answer any five questions- **[2x5=10]**

1. Let a be a divisor of zero in a ring R. Show that a is not a unit in R.
2. Prove that a ring of six elements is commutative.
3. Prove that a ring of prime number of elements is commutative.
4. Let D be an Integral domain and $a,b \in D$. If $a^p = b^p$ and $a^q = b^q$ where p,q are positive integers relatively prime, prove that $a = b$.
5. Find all sub rings of the ring Z_{15}.
6. Prove that the set $S = \{a + b\omega : a,b \in R\}$ is a sub field of the field C where ω is an imaginary cube roots of unity.
7. Prove that a field has no non trivial proper ideals.
8. Prove that Z_n is a principal ideal ring.

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-IV (Honours) Internal Assessment, 2024

Subject : Mathematics

Time : 45 Minutes **Paper- CC10** **Full Marks : 10**

Answer any five questions- **[2x5=10]**

1. Let a be a divisor of zero in a ring R. Show that a is not a unit in R.
2. Prove that a ring of six elements is commutative.
3. Prove that a ring of prime number of elements is commutative.
4. Let D be an Integral domain and $a,b \in D$. If $a^p = b^p$ and $a^q = b^q$ where p,q are positive integers relatively prime, prove that $a = b$.
5. Find all sub rings of the ring Z_{15}.
6. Prove that the set $S = \{a + b\omega : a,b \in R\}$ is a sub field of the field C where ω is an imaginary cube roots of unity.
7. Prove that a field has no non trivial proper ideals.
8. Prove that Z_n is a principal ideal ring.

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-IV (SEC) Internal Assessment, 2024

Subject : Mathematics

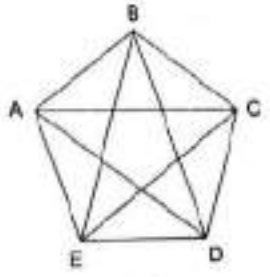
Time : 2 days **Full Marks : 10**

Paper - SEC21

Answer any two questions- **[5x2=10]**

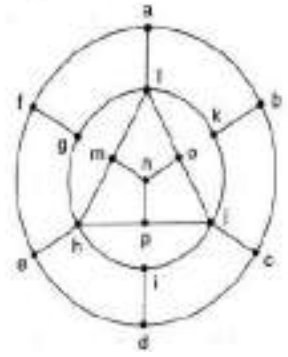
1. If G is a graph with n points and $\delta(G) \geq \frac{n-1}{2}$ then G is connected.
2. Show that a simple graph of order 4 and size 7 does not exist.
3. Show that graph G is Eulerian and find an Eulerian circuit in G.

G:



4. Show that the graph G is not Hamiltonian.

G:



SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-VI (General) Internal Assessment, 2024

Subject : Mathematics

Time : 2 days **Full Marks : 10**

Paper- DSE1B1

Answer any two questions. **[5 x 2=10]**

1. Write down the approximate representation of $\frac{2}{3}$ correct to four significant figures and then find (a) Absolute error, (b) Relative error, (c) Relative percentage error.

2. Using Lagrange's interpolation, find a cubic polynomial $y(x)$ which takes the following data, and hence calculate $y(10)$.

x	5	6	9	11
y(x)	12	13	14	16

3. Solve the equation $x^3 - 9x + 1 = 0$ for the root lying between 2 and 3 by method of bisection, correct to 3-significant figures.

4. Find the root of $x^3 - 8x - 4 = 0$, which between 3 and 4, by Newton-Raphson Method, correct to four decimal places.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-VI (Honours) Internal Assessment, 2024
Subject : Mathematics

Time : 30 Minutes **Full Marks : 10**

Paper- CC13

Answer any five questions- **[2x5=10]**

1. Define convergence of a sequence in a metric space. Prove that in a metric space, a sequence can converge to at most one point.
2. Prove that a Cauchy sequence in a metric space is convergent if and only if it has a convergent subsequence.
3. Prove that the complex numbers space with usual metric is complete.
4. State Cantor's intersection theorem. Use it to test whether $X = (0,1]$ with usual metric, is complete or not.
5. Let $f: (X, d_1) \to (Y, d_2)$ be a function such that, for every open set V in (Y, d_2), $f^{-1}(V)$ is open in (X, d_1). Prove that f is continuous on X.
6. Let f(z) $=\frac{\bar{z}^2}{z}$ $(z \neq 0)$

   $=0$ $(z=0)$, Examine whether $f'(0)$ exist or not.
7. Using Cauchy Integral formula, Calculate the integral $\int \frac{z\,dz}{(9-z^2)(z+i))}$
8. If f(z)=u+iv is analytic function and u-v=e^x(cosy-siny), Find f(z) in terms of z.
9. If a function f(z) is analytic for finite values of z and is bounded, then prove that f(z) is constant.

SURI VIDYASAGAR COLLEGE

B.A./ B.Sc., Sem-VI (Honours) Internal Assessment, 2024

Subject : Mathematics

Time : 30 Minutes **Full Marks : 10**

Paper- CC-14

Answer any five questions- **[2x5=10]**

1. Find the units in the integral domain $Z[\sqrt{-2}]$.

2. Two non zero elements a and b in the integral domain D are such that a/b and b/a. Show that a and b are associates in D.

3. Prove that in an integral domain every prime element is irreducible.

4. In the integral domain $Z\left[i\sqrt{5}\right] = \{a + b\sqrt{5}i : a, b \in Z\}$, show that 3 is irreducible element.

5. Let p be a non zero non unit element in an integral domain D and $\langle p \rangle$ is non zero prime ideal of D. Show that p is prime element.

6. In $Z_5[x]$, express the polynomial $x^4 + \overline{4}$ as a product of linear factors.

7. Prove that the polynomial $1 + x + x^2 + \cdots + x^n$ is irreducible polynomial in $Q[x]$ if $(n + 1)$ is a prime number.

8. Show that a field F is an Euclidean domain.

SURI VIDYASAGAR COLLEGE
B.A./ B.Sc., Sem-VI (Honours) Internal Assessment, 2024
Subject : Mathematics

Time : 30 Minutes **Full Marks : 10**

Paper- DSE-43

Answer any five questions- **[2x5=10]**

1. Find the depth of centre of pressure (C.P.) from free surface when a triangular area immersed in a liquid with one side in the free surface.
2. Find the centre of pressure below the free surface of a vertical circular area immersed in a liquid with its centre at a depth h below the free surface.
3. A given volume V of a heavy liquid is acted upon by forces $-\mu x, -\mu y, -\mu z$; find the equation to the free surface.
4. State the condition for the equilibrium of floating bodies.
5. Discuss briefly the Galilean Transformations.
6. Show that distance between two points remains invariant under Galilean Transformations.
7. What do you mean by absolute length, absolute time and absolute space.
8. Discuss the Newton's Laws of motion.