

Date
25/07/2023

Unit test-01

P-2 B.Sc. I (Maths)

$R \subseteq A \times A$
तथा $S \subseteq A \times A$

$A \times B = \{(a,b) | a \in A, b \in B\}$
① $(x,y) \in R$ वा $(x,y) \in S$
 $\Rightarrow (x,x) \in R \cap S, \forall x \in A$
②

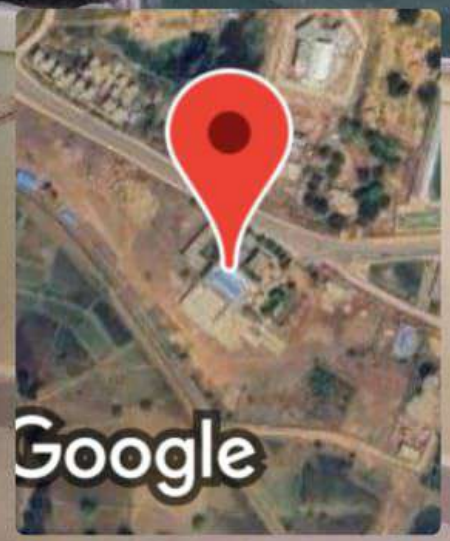
Q.1 संबंध को परिभाषित कीजिए।
माना कि पूर्णांक के समुच्चय I पर एक
संबन्ध R इस प्रकार परिभाषित है कि
 $xRy \Leftrightarrow 5|(x-y)$, अर्थात् $(x-y)$, 5 से
विभाज्य है। तब R, I पर एक तुल्यता संबंध है।

Q.2 यदि समुच्चय A में R एक तुल्यता सम्बन्ध
है तो Prove that R^{-1} भी A में एक तुल्यता
सम्बन्ध है।

Q.3 यदि R और S समुच्चय A में दो
तुल्यता सम्बन्ध हैं तो Prove that
 $R \cap S$ भी A में एक तुल्यता सम्बन्ध है।

Q.4 Show that प्रतिचित्रण $f: \mathbb{R} \rightarrow \mathbb{R}$
जो कि $f(x) = 3x + 5$ द्वारा परिभाषित
है one-one and onto है।

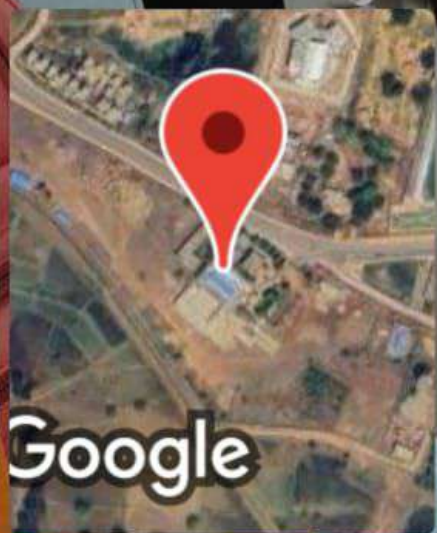
Q.5 यदि $f: X \rightarrow Y$ और A तथा B
समुच्चय Y के दो उपसमुच्चय हों तो
Prove that (1) $f^{-1}(A \cup B) = f^{-1}(A) \cup f^{-1}(B)$
(2) $f^{-1}(A \cap B) \subseteq f^{-1}(A) \cap f^{-1}(B)$



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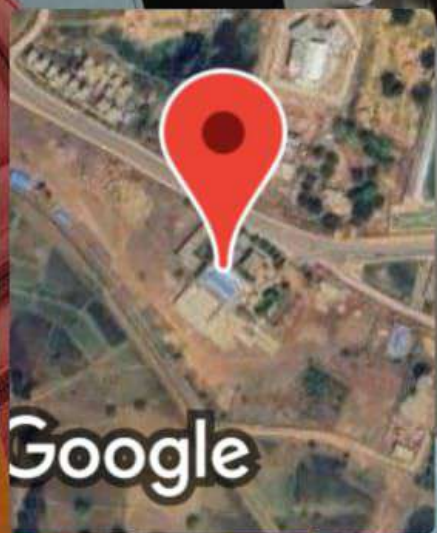
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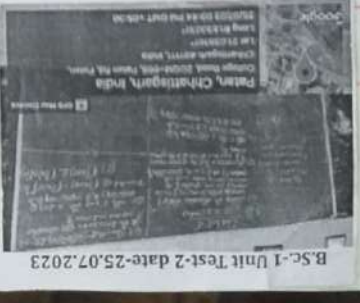
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Unit 1
B.Sc. I (Maths)
Topic - II





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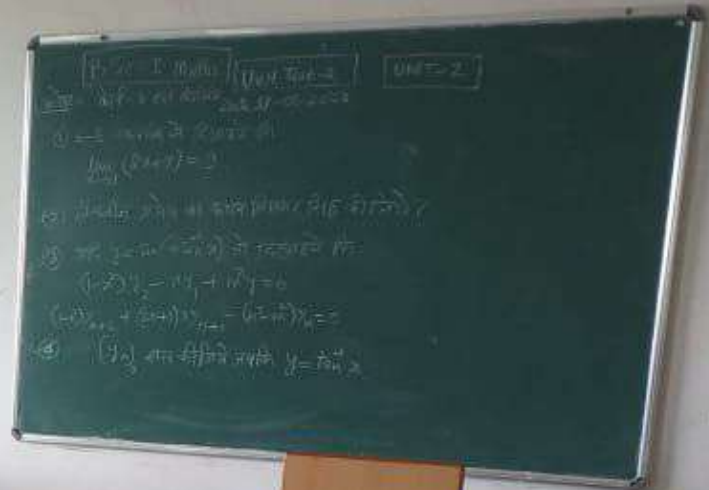
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Date - 17/08/23 B.Sc. Ist UNIT TEST - 2
Calculus (P-I).

S.No.	Name	Sign.
①	कविता साहू	Kavita
②	पारुलती	पारुलती
③	रघुशंकर	रघुशंकर
④	शैलेश्वर लाल	शैलेश्वर
⑤	गुन्जा बंधीर	Gunja
⑥	हर्षा देव लहरा	Harsha
⑦	तान्या भोषी	Tanya
⑧	करुण देवांगन	Karun
⑩	करोन देवांगन	Karom
⑪	शमन कुमार	Shaman
⑫	हिनेश देवांगन	Hitesh
⑬	भोजराम साहू	Bojaram
⑭	निशान	Nishan
⑮	मयंक कुमार	MK Kumar
⑯	आर्यन चन्दाकर	Aryam
⑰	शमन कुमार	Shaman
⑱	शमन कुमार	Shaman

17-8-23

विभागाध्यक्ष
मणित विभाग
शास. चन्द्रलाल बनर्जी
कला एवं विज्ञान महाविद्यालय
पाटन, जि. - बरगढ़ (ओ.प.)

शमन कुमार
विभागाध्यक्ष
कला एवं विज्ञान महाविद्यालय
(प.स) पैठ - जी.पट्टा

Date
21/07/2023

Q1) सांतत्य की जाँच $x=0$ पर कीजिए ?

$$f(x) = \begin{cases} \frac{1-\cos x}{x^2} & , x \neq 0 \\ 1 & , x = 0 \end{cases}$$

Q2) सांतत्य की जाँच कीजिए $x=0$ पर

$$f(x) = \begin{cases} \frac{x e^{2x}}{1+e^{2x}} & , x \neq 0 \\ 0 & , x = 0 \end{cases}$$

Q3) सांतत्य की जाँच करें -

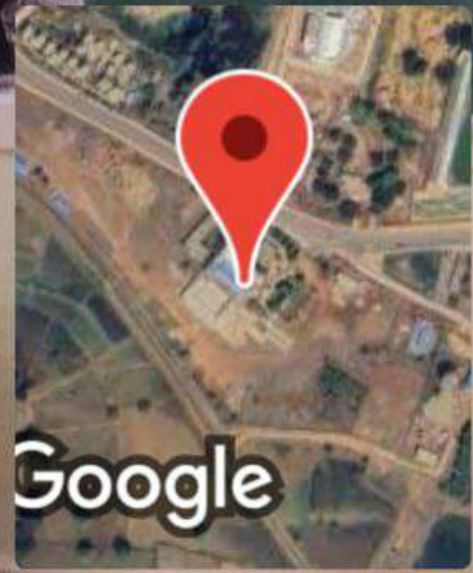
$$f(x) = \begin{cases} x \sin\left(\frac{1}{x}\right) & , x \neq 0 \\ 0 & , x = 0 \end{cases}$$

Q4) $x=1$ पर अवकलनीय की जाँच कीजिए ।

$$f(x) = |x| + |x-1|$$



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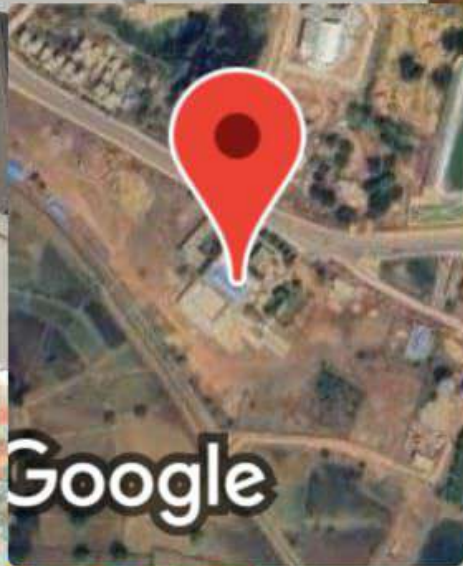
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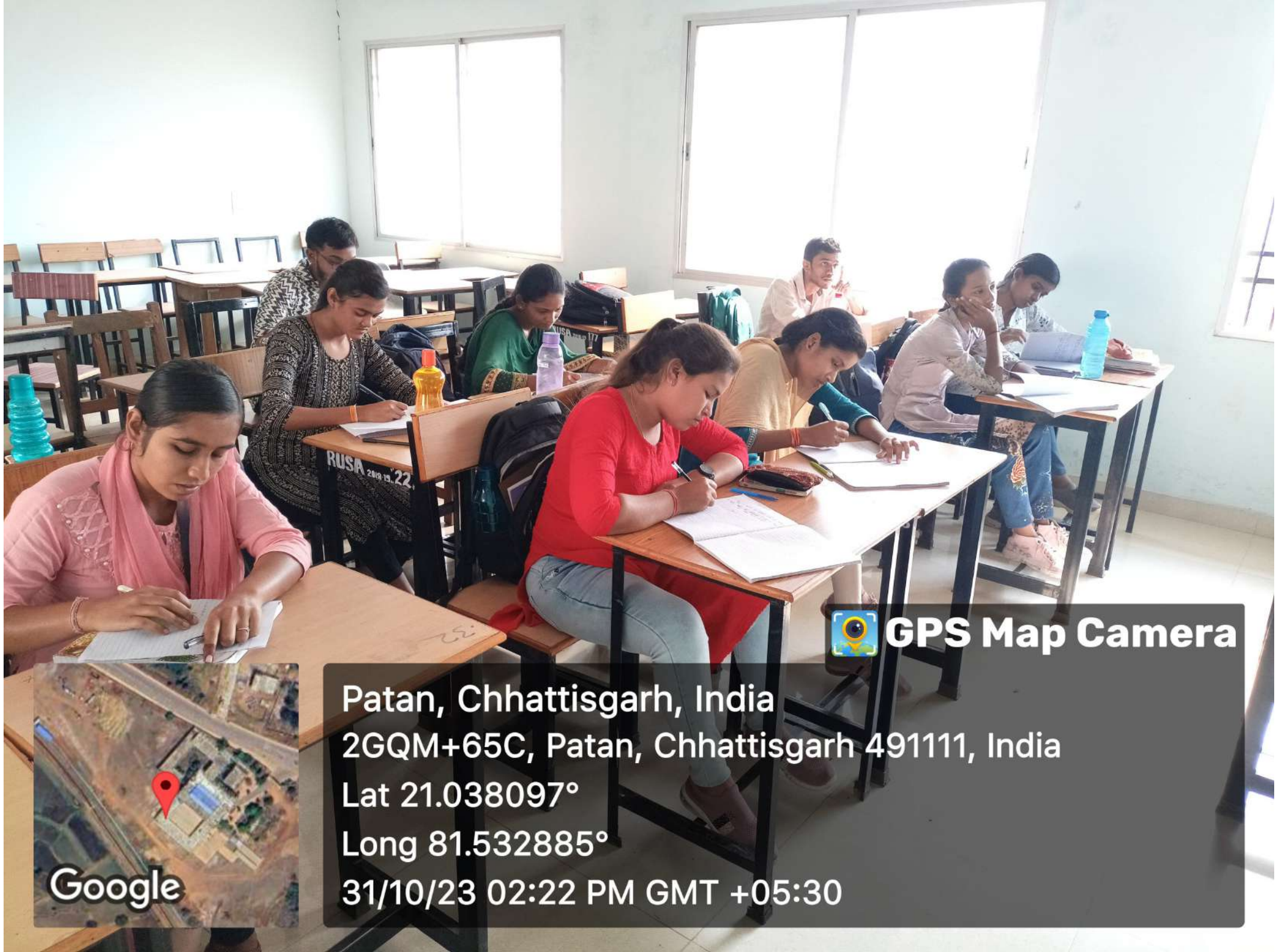
Unit Test II

Q.1 Derive an expression for rotational constant for diatomic molecules.
Q.2 Briefly explain the classification of molecules on terms of their internal rotational mechanism.

OR

Q.3 How pure rotational spectrum is obtained? Explain line spacing obtained in spectrum.
Q.4 Discuss in detail about selection rule for rotational spectrum of rigid diatomic molecule.





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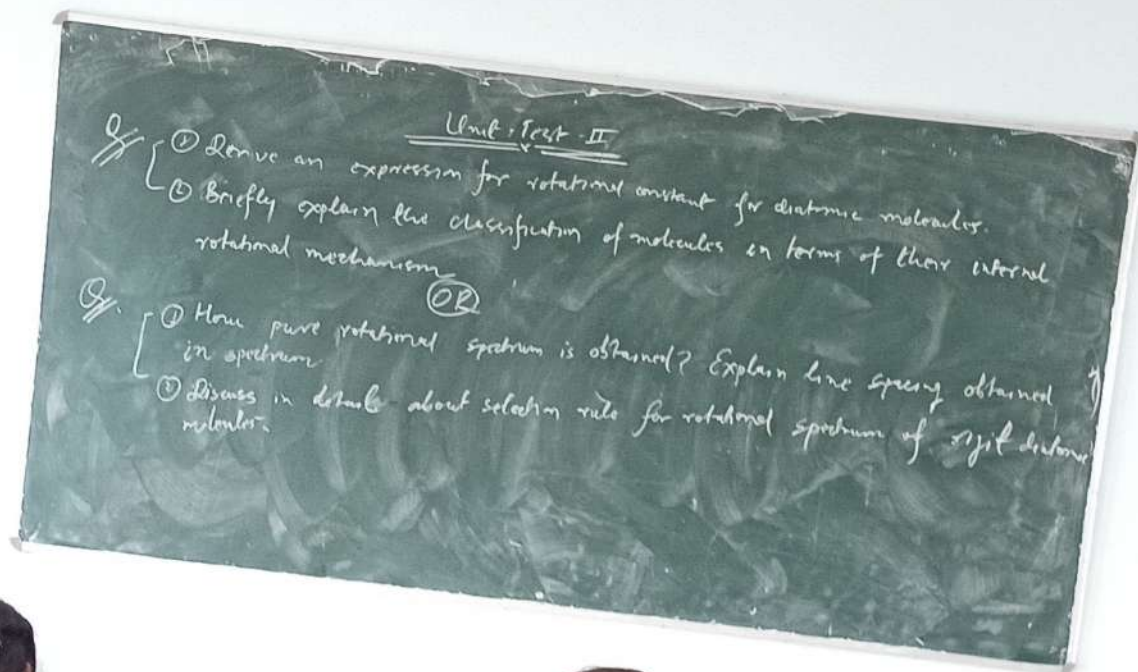
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Unit: Test - II

Q. { ① Derive an expression for rotational constant for diatomic molecules.
② Briefly explain the classification of molecules in terms of their internal rotational mechanism.

Q. { ① How pure rotational spectrum is obtained? Explain line spacing obtained in spectrum.
② Discuss in detail about selection rule for rotational spectrum of rigid diatomic molecules.



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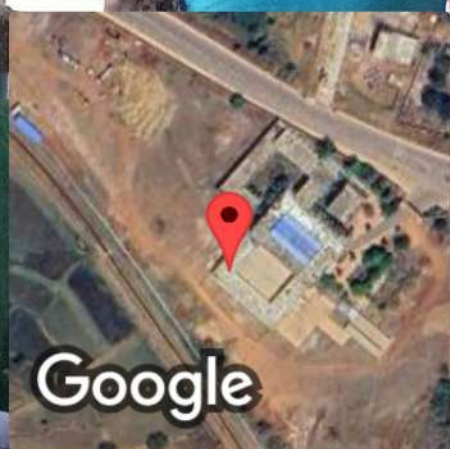
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Unit - Part II

- Q1. Derive an expression for rotational constant for diatomic molecule.
- Q2. Briefly explain the classification of molecules on basis of their external rotational mechanism.
- Q3. How pure rotational spectrum is obtained? Explain how spacing obtained in spectrum.
- Q4. Discuss in detail about selection rule for rotational spectrum of rigid diatomic molecule.

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Unit: Test II

Q.1

- ① Derive an expression for rotational constant for diatomic molecules
- ② Briefly explain the classification of molecules in terms of their internal rotational mechanism

②

Q.2

- ① How pure rotational spectrum is obtained? Explain line spacing obtained in spectrum
- ② Discuss in detail about selection rule for rotational spectrum of rigid diatomic molecules.



Unit Test - 1
M.Sc. IV Semester (Chemistry)
Unit IV : Atomic Absorption Spectroscopy
(Total Marks: 20)

1. Explain the principle, instrumentation, and applications of atomic absorption spectroscopy. (10)

(OR)

What is hyphenated technique, describe the principle, instrumentation, and applications of any one hyphenated technique.

2. Describe the principle, instrumentation, and applications of GC-MS. (10)

(OR)

Write short notes on (Any two) (10)

1. Graphite furnace 2. Cold vapors atomizer 3. Hollow cathode lamp.



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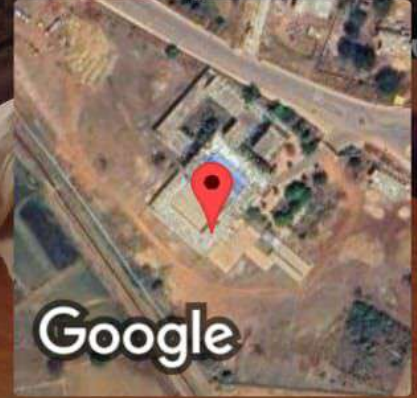
Unit Test - 1
M.Sc. IV Semester (Chemistry)
Unit IV : Atomic Absorption Spectroscopy
(Total Marks 20)

1. Explain the principle, instrumentation, and applications of atomic absorption spectrometry. (10)
(OR)
What is hyphenated technique, describe the principle, instrumentation, and applications of any one hyphenated technique.

2. Describe the principle, instrumentation, and applications of GC-MS. (10)
(OR)
Write short notes on (Any two)
1. Graphitic furnace 2. Cold vapour atomizer 3. Hollow cathode lamp.



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- (I) डीनस एन्ड द मिनिस्टर्स पर टिप्पणी लिखिए।
- (II) डाइ-इन का वर्गीकरण का प्रत्येक को उदाहरण सहित समझाइये।
- (III) मारकोनीकाफ के नियम को विद्याविधि सहित समझाइये।
- (IV) हेसीटीलीव के अम्लीय स्वभाव को समझाइये।
- (V) संयुग्मित डाइ-इनो में इलेक्ट्रोफिलिक योग ~~योग~~ एवं मुक्त मूलक योग को विद्याविधि सहित समझाइये।





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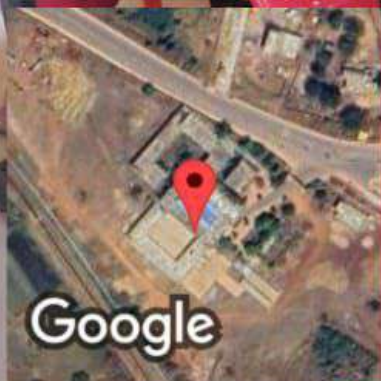
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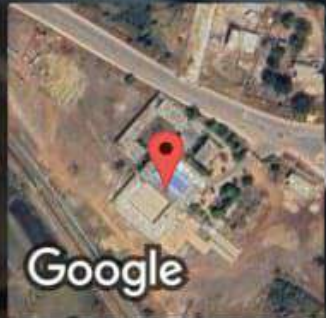
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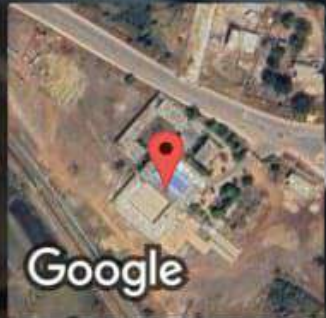
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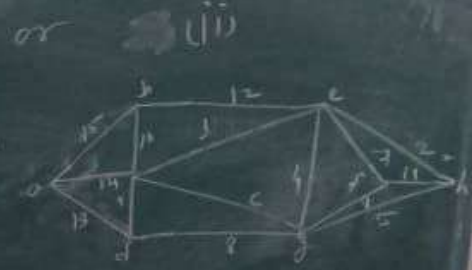
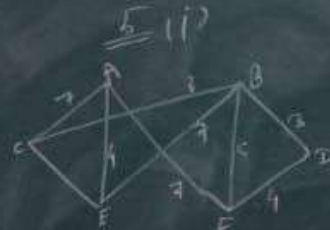
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M.Sc II Sem Unit Test-3
 Paper-5 (ADM-II)

Exam Date - 11/03/24

Solution 4 -

- ① Write short notes on Dijkstra Algorithm.
- ② Write short notes on Kruskal Algorithm.
- ③ Write short notes on Chinese postman Problem.
- ④ Write short notes on matrix representation of a graph (Directed & undirected graph)
- ⑤ Find the minimum spanning tree for weighted graph using Kruskal Algorithm.
- ⑥ Find the circuit matrix of the following graph.



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M.Sc.-II Sem Unit Test-3 Mathematics
 Paper-5 (Advance Discrete mathematics-II)
 UNIT-3 Exam Date - 09-03-2024 (Saturday)

Note - Solve any 5- Questions

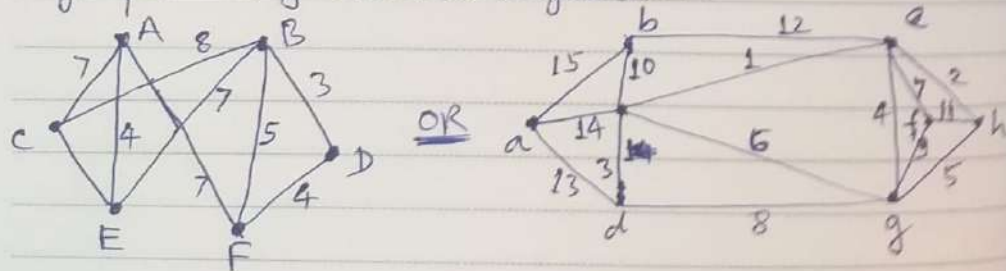
Q1 - Write short notes on Dijkstra Algorithm.

Q2 - Write short notes on Kruskal Algorithm

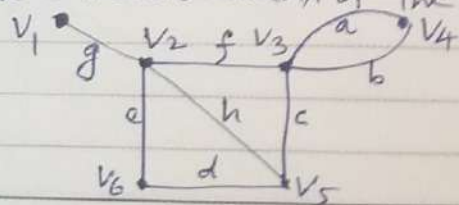
Q3 - Write shortnotes on Chinese Postman problem.

Q4 - Write shortnotes on matrix representation of a graph (Directed & undirected graph)

Q5 - Find the minimum spanning tree for weighted graph using Kruskal Algorithm:



Q6 - Find the circuit matrix of the following graph





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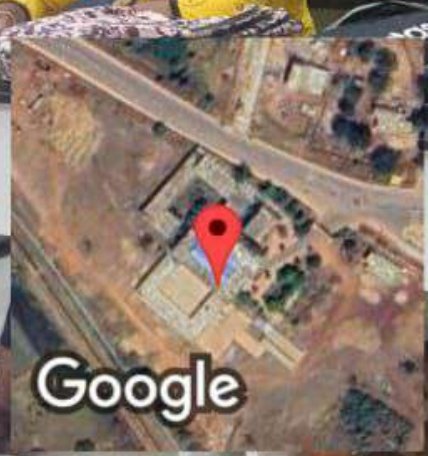
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10th
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सिपकोवहा कदार
गुजरा स
तरिवाह मरुड
गनदो तर
गहकाकला मर
पोडा पुन
मरोहा सिल
जममव

Test-03
Misc. I (Maths)
Paper - I (AAA)
Q.1. State and prove Jordan-Hölder theorem.
Q.2. A group G is Solvable iff $G^{(n)} = \{e\}$ for positive integer n.
Q.3. Every finite group has a composition series.

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MISSION

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- To achieve the high standards of excellence in generating and propagating mathematical knowledge.
- To provide an environment where students can learn, become competent users of mathematics and understand the use of mathematics in other disciplines.
- To create an atmosphere conducive to high class research and to produce researchers with clear thinking and determination who can become experts in future in relevant areas of Mathematics.



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UNIT TEST-1 M.Sc-II Sem (Maths)

Date - 27-02-2024 Paper-5 (Discrete Maths)

Note - Solve five questions from following:

Q1 - Give short notes on

- (i) Konigsberg bridge problem (ii) Isomorphic Graph
(iii) Complete graph = (K_n) (iv) Bipartite Graph = $(K_{m,n})$

Q2 - Prove that in any graph the number of vertices of odd degree is always even.

Q3 - state and prove Hand shaking Lemma

Q4 - Prove that the maximum number of edges in a simple graph with n -vertices is $= \frac{n(n-1)}{2}$

Q5 - Let G be a simple graph with n -vertices. If G has k -components, then the maximum number of edges that G can have are $\frac{(n-k)(n-k+1)}{2}$

Q6 - Write short Notes on:

- (i) Subgraph (ii) Complement of a subgraph
(iii) Degree of a vertex (iv) Simple graph

UNIT TEST-1 PAPER-5

(Advanced Discrete Maths)

M.Sc. 1 Sem (Maths)

Note - Solve any three

Q1 - Define basic logical operations and draw the truth table for $\vee, \wedge, \sim, \Rightarrow, \Leftrightarrow, \downarrow, \uparrow, \oplus$

Q2 - Write the distributive law and verify it by truth table.

Q3 - Define argument by an example. Show that if $p, p \Rightarrow q, q \Rightarrow r, \vdash r$ is valid argument.

Q4 - Write a short notes on the "Rule of inference" for logical statements.

Q5 - Define (i) quantifier (ii) Universal quantifier (iii) Existential quantifier.



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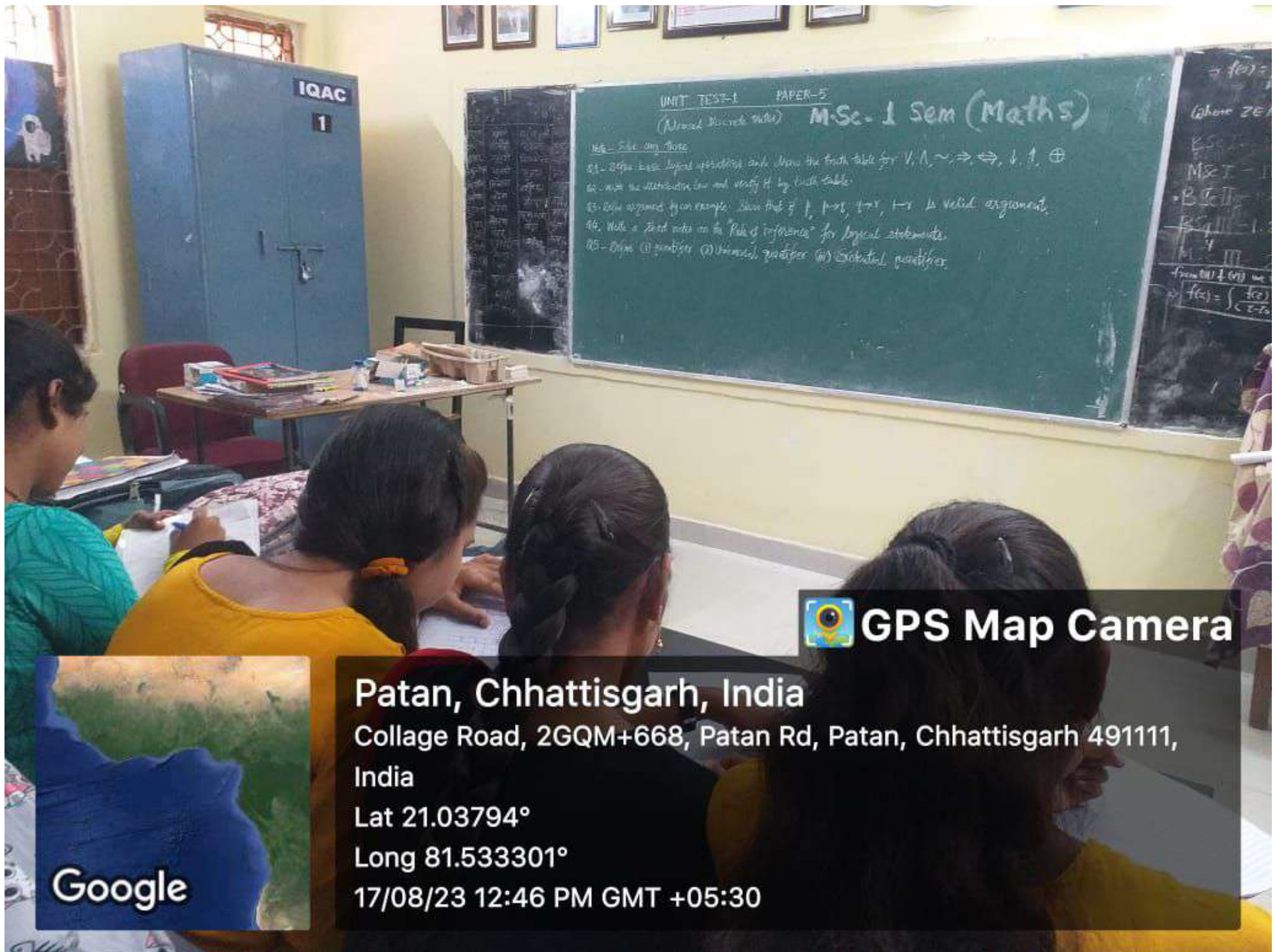
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UNIT TEST-1 PAPER-5
(Advanced level) M.Sc. I Sem (Maths)

1. Solve any three
- Q1. Define basic logical operations and show the truth table for $\vee, \wedge, \sim, \Rightarrow, \Leftrightarrow, \downarrow, \uparrow, \oplus$
 - Q2. Write the distributive law and verify it by truth table.
 - Q3. Give an example to show that if $P, P \vee Q, P \wedge R, P \rightarrow R$ is a valid argument.
 - Q4. Write a short note on the "Rule of inference" for logical statements.
 - Q5. Define (i) function (ii) Universal quantifier (iii) Existential quantifier.

$\rightarrow f(x) =$
 (where $Z =$
 $B \subseteq$
 $M \subseteq Z - I$
 $+ B \subseteq I$
 $B \subseteq I - I$
 $M \subseteq I$
 $f: M \rightarrow I$
 $f(x) = \int \frac{f(x)}{c-x}$

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Date - 17/08/2023

M.Sc. Ist sem

UNIT - TEST - 1
(Advanced Discrete Maths)

(Paper - 5)

Date 17-8-2023

S.No.	Name	Sign.
1.	Vidya	Vidya
2.	Jageethi Sahu	Jageethi
3.	Pallavi Verma	Pallavi
4.	Ritu Dewangan	Ritu
5.	Khiteshwari Tandan	खितेश्वरी
6.	Rajeshwari Sahu	Rajeshwari
7.	Garima Sahu	गरिमा
8.	Bhuneshwari	भुनेश्वरी
9.	Amrita Sahu	Amrita
10.	Nandita Sahu	Nandita
11.	Geetima Chaudhary	Geetima
12.	Hema	हेमा
13.	Madhuri Sen	madhuri
14.	Ankita Kumar	Ankita
15.	Umakant	Umakant
16.	Poojankes Verma	Poojankes

17-8-2023

विभागाध्यक्ष
गणित विभाग
शास. चन्द्रमाल चन्द्राकर
कला एवं विज्ञान महाविद्यालय
पाटन, जि. - द.नं. (उ.प्र.)

Unit Test-M.Sc.-I sem (Maths) Paper-5
Discrete Maths- 17.08.2023





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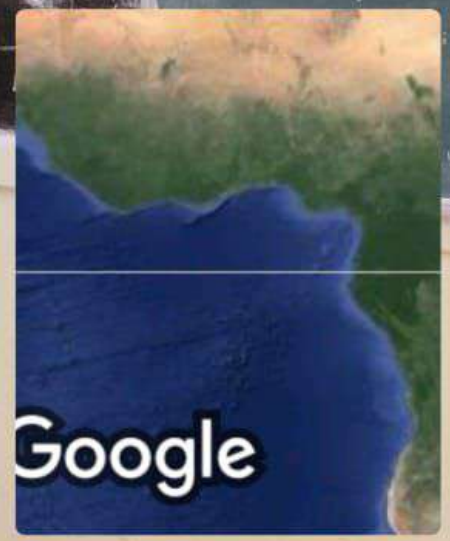
Theo.

Date - 02/09/23. Unit test - 03
Real Analysis

- ① State and prove Taylor's theorem.
- ② State and prove Implicit function theorem.



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M.Sc. I Sem. Date - 02/09/23.

Unit Test - 03.

Paper - (02) [Real Analysis].

S.No.	Name	Sign.
1	पलसवी वर्मा	पलसवी वर्मा
2	शक्ति देवांगन	शक्ति देवांगन
3	शजेश्वरी साहू	शजेश्वरी साहू
4	रिपनेश्वरी टांडन	रिपनेश्वरी टांडन
5	अंकित कुमार	Ankita
6	उमाकांत	Uma
7	हेमा	Hema
8	नंदिता	Nandita

Pu


02/09/2023.

Priya Chandaker.

shf
02-9-23

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शास. चन्द्रलाल चन्द्रशेखर
कला एवं विज्ञान महाविद्यालय
पाटन, वि. - दुर्ग (झ.प्र.)



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Test-II

M.Sc. I Sem

Paper - IV (Complex Analysis)

Date - 14-08-2023

14/08/2023
(स.स.) 14-08-2023

S.No.	Name	Sign
1.	Priyanka Verma	Priyanka
2.	Jagsiti Sahu	Jagsiti
3.	Pallavi Verma	Pallavi
4.	Ritu Dewangan	Ritu
5.	Khilashwari Jandani	खिलेश्वरी
6.	Rajeshwari Sahu	Rajeshwari
7.	Garima Sahu	गारिमा
8.	Nandita Sahu	Nandita
9.	Hema	हेमा
10.	Madhuri Sen	madhuri

14-8-23

विभागाध्यक्ष
गणित विभाग
शारदा चन्द्रलाल मन्दारकर
कला एवं विज्ञान विद्यालय
पाटन, सि. दुर्ग (उ.प्र.)

14/08/2023

(Jayendra Shrivastava)



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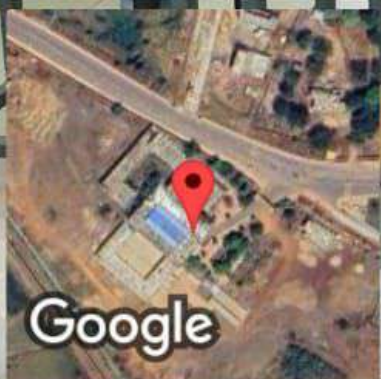
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Date - 19/02/24.

Unit Test - 02 (Topology)

- ① The Product Space $X_1 \times X_2$ is connected iff both X_1 and X_2 are connected.
- ② State and prove Tychonoff's theorem.
- ③ Show that a product space X is first countable, iff each ω -ordinate space is first countable.
- ④ Metrizable is a Countably productive Property.



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• To make students competent in the skills that they will need to flourish in the transforming journey
• To achieve the high standards of excellence in generating and propagating mathematical knowledge
• To provide an environment where students can build deeper understandings of mathematics and understand the beauty of mathematics in other disciplines
• To create an atmosphere conducive to research and to produce researchers with a strong background in Mathematics



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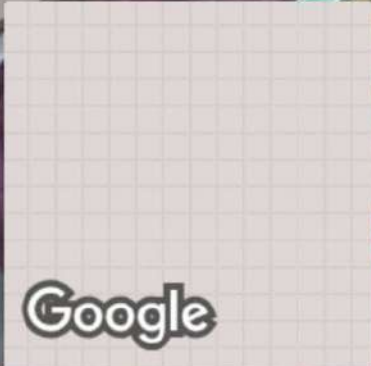
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