

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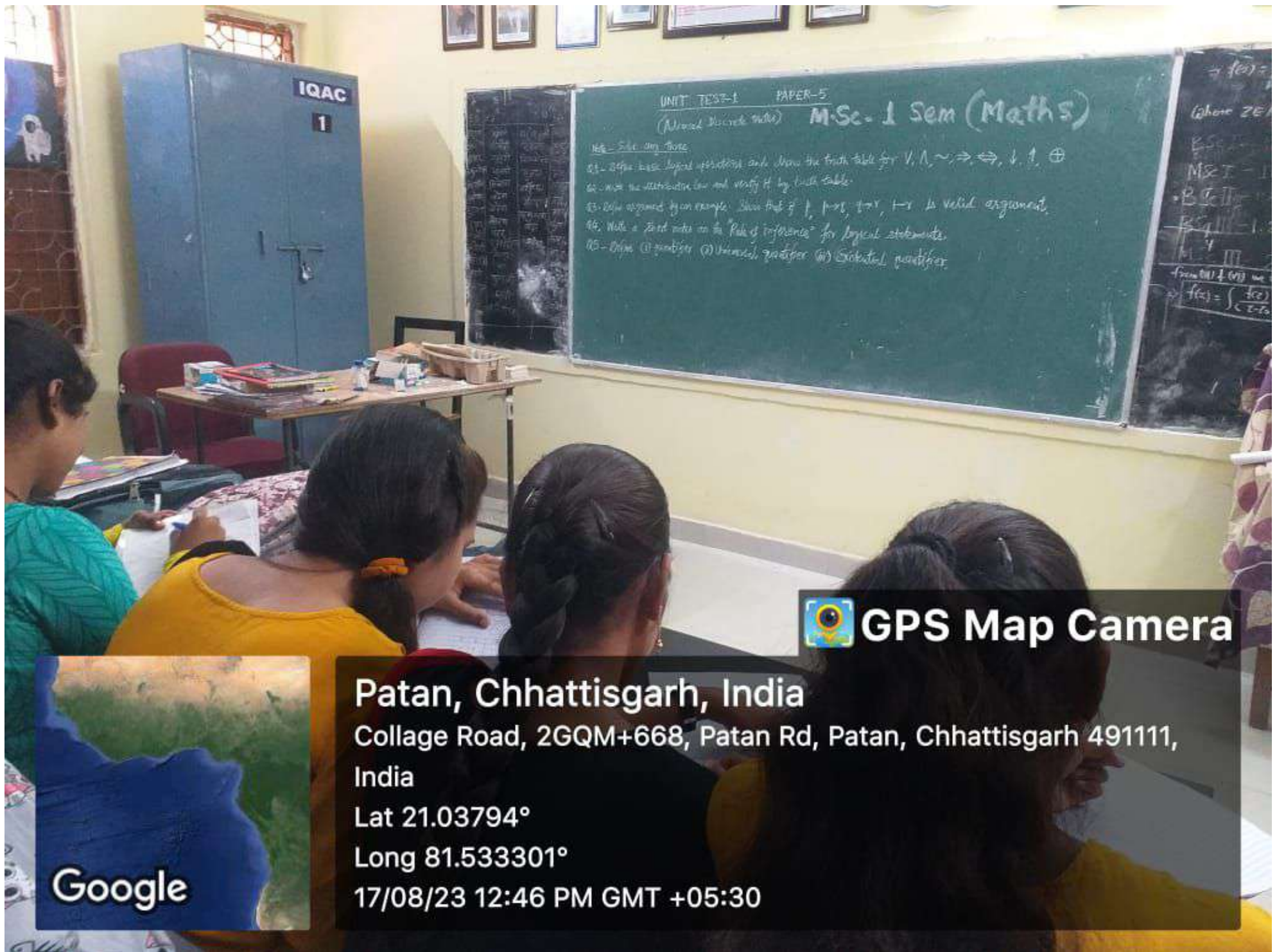
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UNIT TEST-1 PAPER-5
(Advanced Directed Maths) **M.Sc. I Sem (Maths)**

- Note** - 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 $Z \in$
B.S.
M&T - 1
+ B.S.T
B.S.T - 1
M. 1
III
from (M) & (M) we
 $\Rightarrow f(x) = \int \frac{f(x)}{c-x}$



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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	गारिमा
8.	Bhuneshwari	भुनेश्वरी
9.	Amrita Sahu	Amrita
10.	Nandita Sahu	Nandita
11.	Geetika Chaudhary	Geetika
12.	Hema	हेमा
13.	Madhuri Sen	madhuri
14.	Ankita Kumar	Ankita
15.	Umakant	Umakant
16.	Poojanku Verma	Poojanku

17-8-2023

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

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

