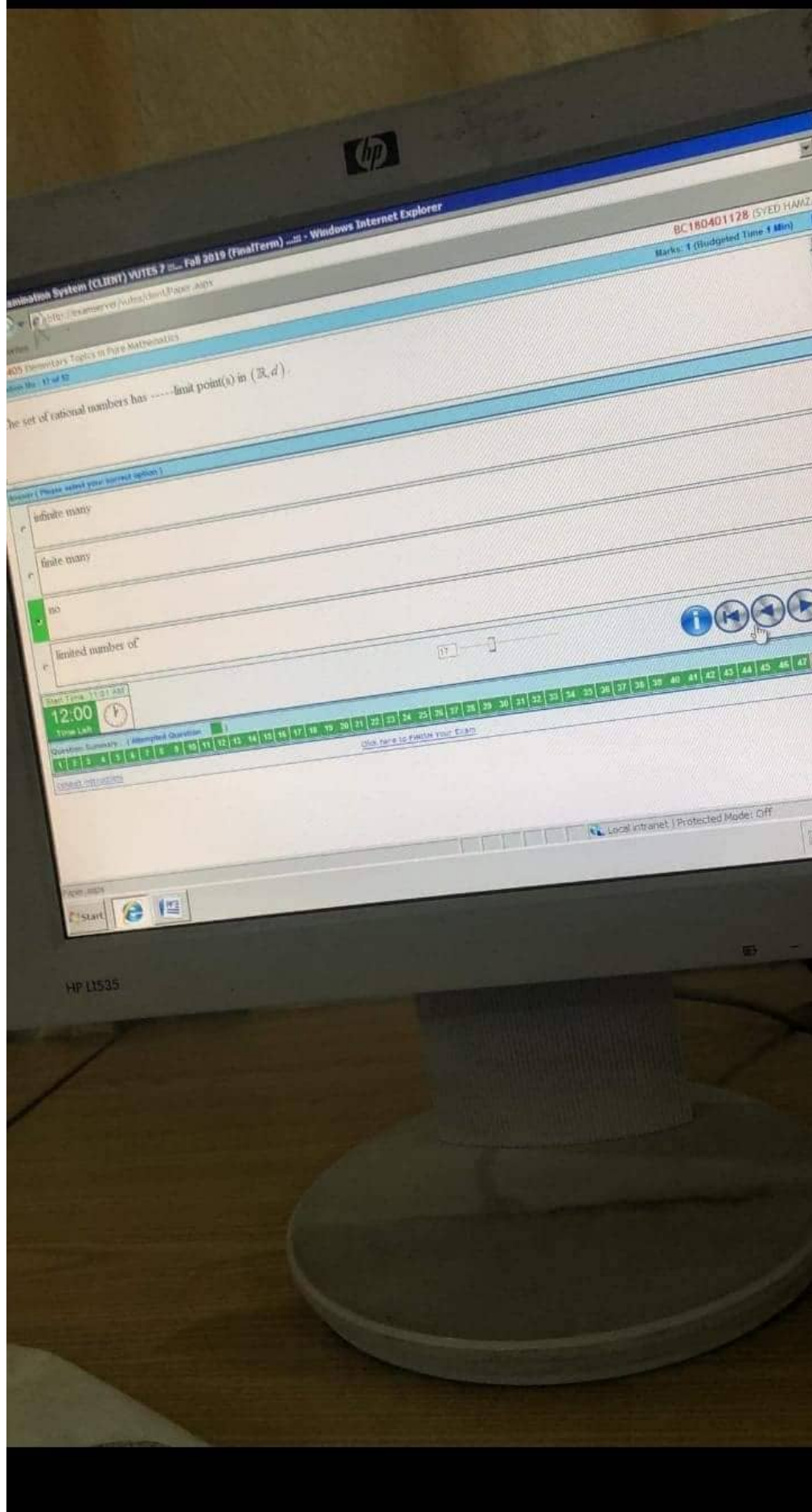
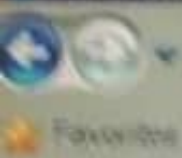






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**MTH405** Elementary Topics in Pure Mathematics

Question No. 28 of 32

$(\mathbb{Z}, -)$  is a groupoid under the operation of usual subtraction

Answer : Please select your correct option :

False

True

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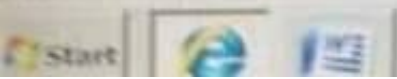
28

Question Summary : [ Attempted Question ]

- |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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Answer: (Please select your correct option.)

1

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Question Summary / Attempted Question 

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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For the distance function  $d(x, y) = \sqrt{|x - y|}$  in  $R$ ,  $d\left(1, \frac{1}{2}\right) = \underline{\hspace{2cm}}$

Answer ( Please select your correct option )

- ☐  $\sqrt{2}$
- ☒  $\frac{1}{\sqrt{2}}$
- ☐ 2
- ☐ 1

Start Time: 11:51 AM  
Time Left: 1:00

Question Summary: Attempted Question: 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45

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AL114025: Elementary Topics in Pure Mathematics

Question No. 88 of 92

Marked: 1 Unattempted: 10

Countable intersection of open sets:  $\bigcap_{n=1}^{\infty} \left( -\frac{1}{n}, \frac{1}{n} \right) = \dots$

Answer ( Please select your correct option )

- ☒  $\{1\}$
- ☐  $\{0\}$
- ☐  $\{x\}$
- ☐  $\{-x\}$

Time Left: 15:00

Navigation Summary: 1 Attempted Questions

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92

Correct Answer:  $\{0\}$

Incorrect Answer:  $\{1\}$

Start

**MTH405** Elementary Topics in Pure Mathematics

Question No : 31 of 32

The commutative law does not hold in composition of permutations.  
That is,  $f \circ g \neq g \circ f$

Answer ( Please select your correct option )

☒ True

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☐ False

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31

Question Summary : ( Attempted Question )

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## MATH405 Elementary Topics in Pure Mathematics

Question No. 3 of 52

Supremum of open interval  $(0,1)$  in  $\mathbb{R}$  is-----.

Answer ( Please select your correct option )

- ☐ 0
- ☒ 1
- ☐ not defined
- ☐  $+\infty$

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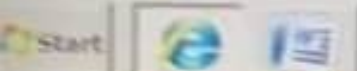
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Question Summary ( Attempted Question )

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**MTH405** Elementary Topics in Pure Mathematics

Question No : 25 of 52

For  $A = \{(x, y) \mid x^2 + y^2 = 1, \forall x, y \in (\mathbb{R}, d')\} \subset (\mathbb{R}^2, d')$ , the  $\text{Int}(A) = \dots$ .

Answer ( Please select your correct option )

☒  $x^2 + y^2 = 1$

☐  $x^2 + y^2 < 1$

☐  $x^2 + y^2 > 1$

☐  $\emptyset$

Start Time : 11:01 AM

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Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34

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6.374-405 Elementary Topics in Pure Mathematics

Question No. 12 of 32

Limit point(s) of  $[0,1] \subset (\mathbb{R},d)$  is(are).....

Answer ( Please select your correct option.)

- ☐ 0 and 1
- ☒ 0 or 1
- ☐ 0
- ☐ 1

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**13:00**  
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Question Summary: 1 Attempted Question 1

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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Answer ( Please select your correct option )

☒ False

☐ True

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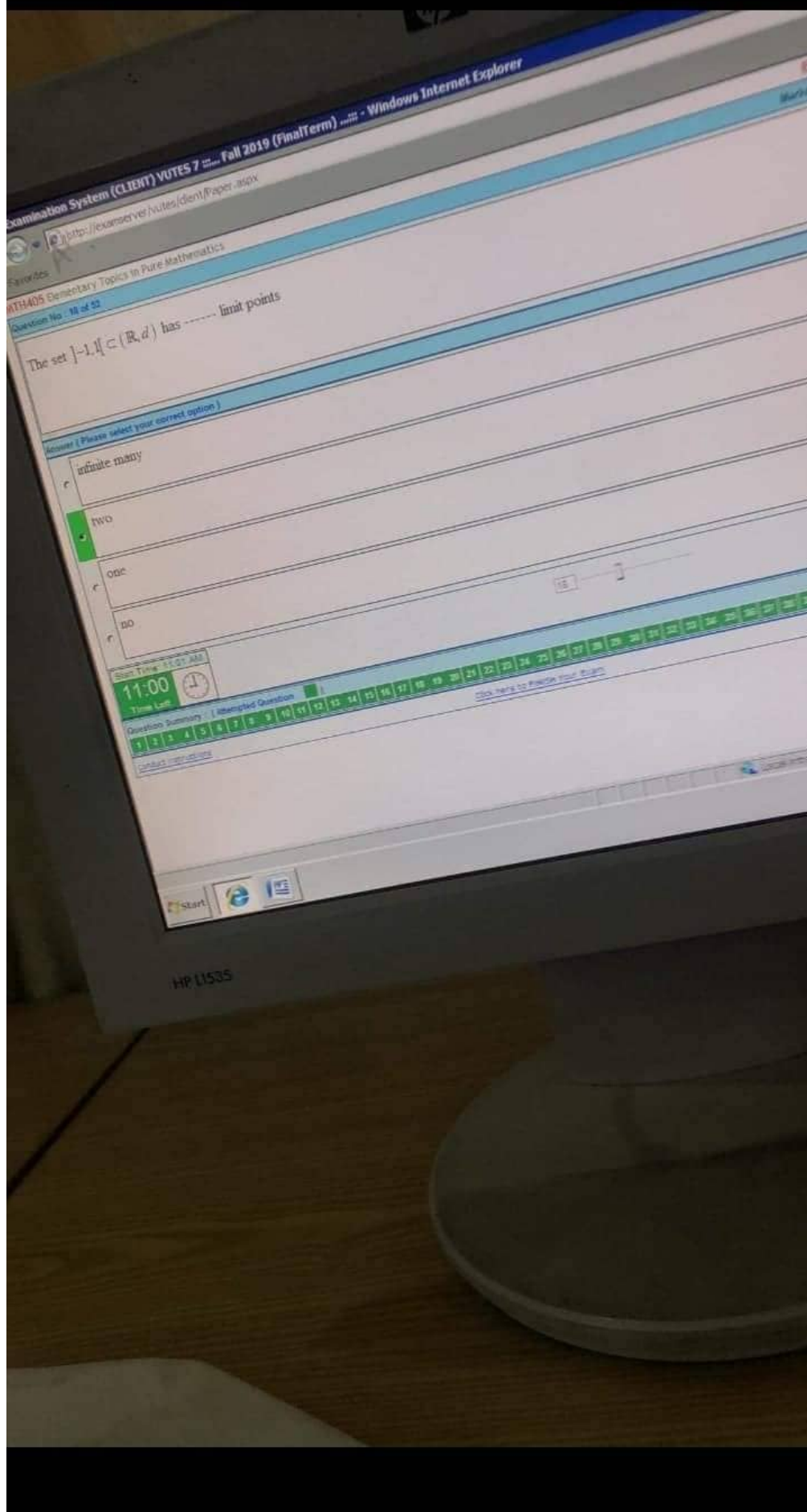


Question Summary: ( Attempted Question )

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**MTH405** Elementary Topics in Pure Mathematics

Question No : 29 of 52

The set  $\{1, -1\}$  is a group under addition.

Answer ( Please select your correct option )

☒ True

☐ False

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Question Summary : ( Attempted Question )

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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**MATH405** Elementary Topics in Pure Mathematics

Question No : 30 of 52

A bijective mapping from non-empty set  $X$  to  $X$  is called permutation.

Answer ( Please select your correct option )

True

False

Start Time: 11:01 AM

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Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

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Number of neighborhoods of '0' are  $\dots$

Correct option is

10

End Question

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

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MC14055 Elementary Topics in Pure Mathematics

Question No. 10 of 30

In  $(\mathbb{R}, d)$ , the number of neighbourhoods of '0' are infinite.

Answer ( Please select your correct option )

Guide

infinite

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Question Summary ( Attempted Question )

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MT5405 Elementary Topics in Pure Mathematics

Question No. 17 of 32

The set of rational numbers has ——— limit point(s) in  $(\mathbb{R}, d)$ .

Answer : Please select your correct option :

☐ infinite many

☐ finite many

☒ no

☐ limited number of

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Question Summary : ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

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PHY101: Physics (PHY101) online Grand quiz

Question # 19 of 25 ( **Start time: 11:12:36 AM, 06 July 2020** )

If a wheel turns with constant angular speed then:

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Select the correct option

- |                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <input type="radio"/> | each point on its rim moves with constant acceleration                           |
| <input type="radio"/> | the wheel turns through equal angles in equal times                              |
| <input type="radio"/> | the angle through which the wheel turns in each second increases as time goes on |
| <input type="radio"/> | each point on its rim moves with constant velocity                               |

In a metric space  $(X, d)$ , for any non-empty subset  $A$ , its closure: -----.

Answer ( Please select your correct option )

☐  $\bar{A} \subset A$

☐  $\bar{A} \supset A$

☐  $\bar{A} = A$

☒  $\bar{A} \neq A$

Start Time: 11:01 AM

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Question Summary : ( Attempted Question )

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**MTH405** Elementary Topics in Pure Mathematics

Question No : 6 of 52

If  $\forall x \in \mathbb{R}, |x| < -a$ , where  $a > 0$ , then ---

Answer ( Please select your correct option )

☐  $-a < x < a$

☒  $-a > x > a$

☐  $-a > x < a$

☐ None of these

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Question Summary ( Attempted Question )

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MTH405 Elementary Topics in Pure Mathematics

Question No : 34 of 52

For the distance function  $d(x, z) = |x - z|$  in  $(R, d)$ ,  $d(x, z) \geq 0$

Answer ( Please select your correct option )

True

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False

Start Time: 11:01 AM

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34



Question Summary : ( Attempted Question : )

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01085: AFIFA NIJRAT

Physics (PHY101) online Grand quiz

17 of 25 ( Start time: 11:09:39 AM, 06 July 2020 )

A ship is coasting toward a planet. Its captain wishes to know the value of  $g$  at the surface of the planet. This may be inferred

The correct option

measuring the density of the planet.

observing the ship's acceleration and correcting for the distance from the center of the planet.

measuring the diameter of the planet

measuring the apparent weight of an object of known mass in the ship

----- is an example of closed set in  $(\mathbb{R}, d)$ .

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Answer ( Please select your correct option )

☐  $]0,1[$

☒  $]0,1]^c$

☐  $[0,1]$

☐  $[0,1[$

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10:00

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Question Summary : ( Attempted Question )

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TH405 Elementary Topics in Pure Mathematics

Question No : 4 of 52

$$\max \{x_1 + y_1, x_2 + y_2\} \cdots \max \{x_i + x_2\} + \max \{y_1 + y_2\}.$$

Answer ( Please select your correct option )

- ☐  $\neq$
- ☒  $\geq$
- ☐  $\leq$
- ☐  $=$

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Question Summary ( Attempted Question )

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If the set A has 2 elements, then total number of permutations on A is 2.

Answer ( Please select your correct option )

True

False

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Question Summary ( Attempted Questions )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

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35

Which of the following is true about the bounded-ness of  $f(x) = \cos x$ ?

Answer ( Please select your correct option )

☐  $-\frac{1}{2} \leq \cos x \leq \frac{1}{2}$

☒  $0 \leq \cos x \leq 1$

☐  $-1 \leq \cos x \leq 0$

☐  $-1 \leq \cos x \leq 1$

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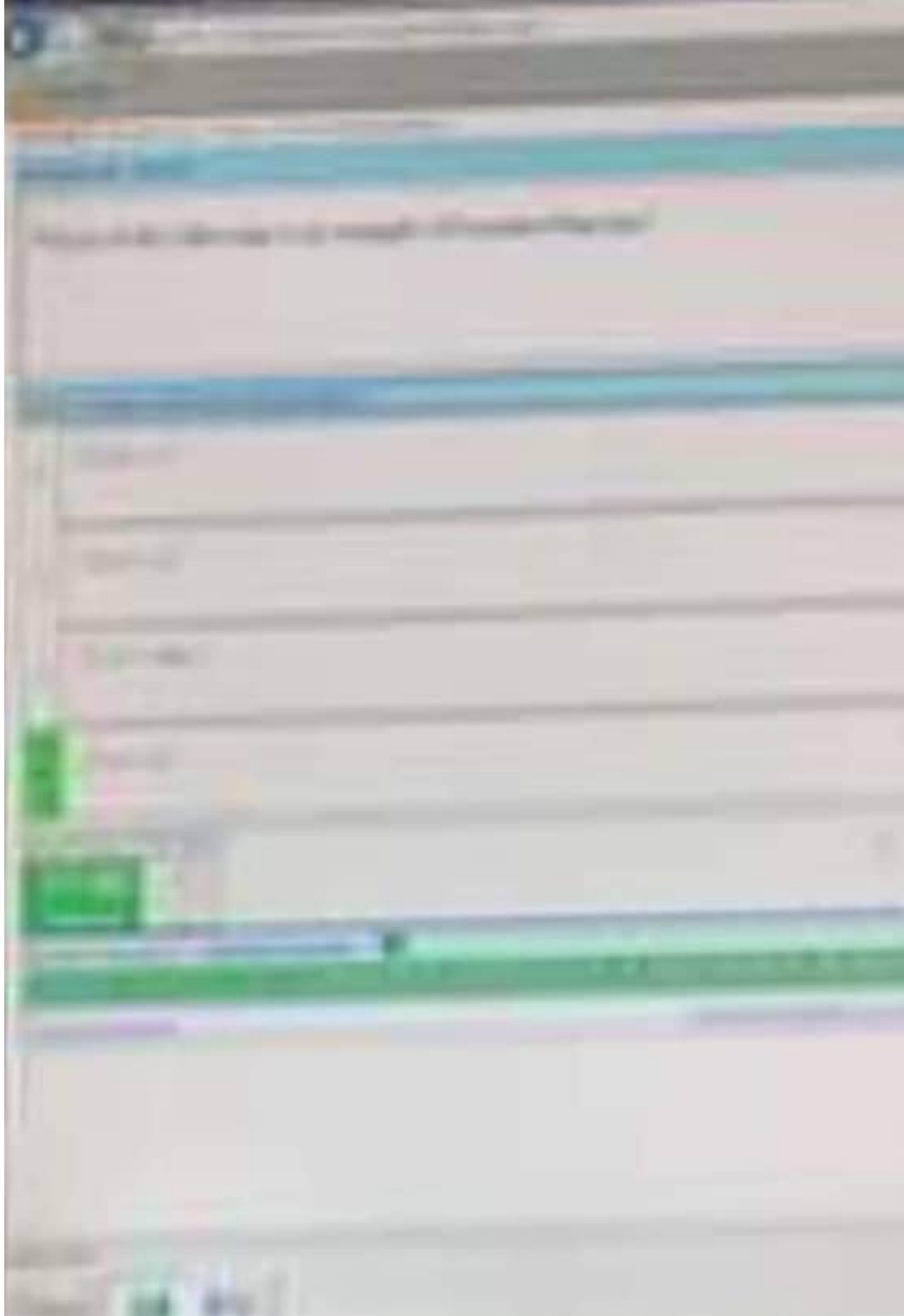


Question Summary : Attempted Question

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**MTH405** Elementary Topics in Pure Mathematics

Question No: 16 of 32

Limit point of singleton  $\{x\} \subset (X, d)$  is.....

Answer ( Please select your correct option )

- ☐  $\{x\}$
- ☒  $\{x\}^c$
- ☐  $X$
- ☐  $\emptyset$

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Question Summary ( Attempted Question )

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**MTH405** Elementary Topics in Pure Mathematics

Question No : 14 of 52

For  $(-1, 1) \subset (\mathbb{R}, d)$ , the points which can never have neighborhoods are -----.

Answer ( Please select your correct option )

☐ 0☐ 1 and -1☐ 0 and 1☒ -1 and 0

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14

Question Summary : ( Attempted Question )

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The sequence  $\left\{\frac{1}{n}\right\}_{n \in \mathbb{N}}$  is -----

Answer ( Please select your correct option )

☒ increasing

☐ decreasing

☐ both increasing and decreasing

☐ neither increasing nor decreasing

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Question Summary ( Attempted Question )

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

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MTH4025 Elementary Topics in Pure Mathematics

Question No. 21 of 32

The closure of a subset  $\emptyset \neq A \subset (X, d)$  is given by  $\bar{A} = \dots$

Answer ( Please select your correct option )

☐  $A \cup A^c$

☐  $A \cup A^d$

☐  $A \cup (A^c)^c$

☒  $A \cup (A^c)^d$

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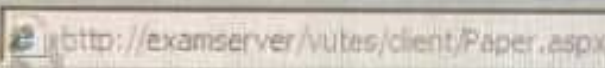
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Question Summary : ( Attempted Question )

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## MTH405 Elementary Topics in Pure Mathematics

Question No : 23 of 52

In a metric space  $(X, d)$ , for any non-empty subset  $A$ , its closure  $\bar{A}$  is the ----- of  $A$ .

Answer ( Please select your correct option )

☐ smallest closed superset☐ largest closed superset☒ smallest open superset☐ largest open superset

Start Time: 11:01 AM

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Question Summary : ( Attempted Question )

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
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