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5



MC170200830: Kainat Ashfaq

Time Left 83
sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 02:39 PM, 14 August 2018

Question # 2 of 4 (Start time: 02:41:37 PM, 14 August 2018)

Total Marks: 1

Every discrete space is not a regular space.

Select the correct option



True



False

Click to Save Answer & Move to Next Question



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MC170200830: Kainat Ashfaq

Time Left 58 sec(s)

MTH634: Quiz No. 2

Quiz Start Time: 02:39 PM, 14 August 2018

Question # 4 of 4 (Start time: 02:43:18 PM, 14 August 2018)

Total Marks: 1

Which of the following statement is false?

Select the correct option



A set X with indiscrete topology is compact.



A set X with any topology containing finite number subsets of X is compact.



A finite set X with any topology is compact.



An infinite set X with discrete topology is compact.

[Click to Save Answer & Move to Next Question](#)



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MC170200830: Kainat Ashfaq

Time Left 17 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 02:39 PM, 14 August 2018

Question # 1 of 4 (Start time: 02:39:20 PM, 14 August 2018)

Total Marks: 1

If (X, τ) be a compact Hausdorff space then (X, τ) is not normal.

Select the correct option

Reload Math Equations

True



False



Click to Save Answer & Move to Next Question



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2



MC170201745: Shakeel Ahmad

Time Left 18 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 09:29 AM, 14 August 2018

Question # 3 of 4 (Start time: 09:31:13 AM, 14 August 2018)

Total Marks: 1

A topological space X is called a connected space iff there exists a pair of subsets of X both nonempty and both open and closed.

Select the correct option

Reload Math Equations

True



False



Click to Save Answer & Move to Next Question



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MC170201745: Shakeel Ahmad

Time Left 42 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 09:29 AM, 14 August 2018

Question # 2 of 4 (Start time: 09:30:19 AM, 14 August 2018)

Total Marks: 1

Which of the following statement is false?

Select the correct option



Every metric space is second countable.



Every metric space is Hausdorff space.



Every metric space is normal space.



none



Click to Save Answer & Move to Next Question



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MC170201745: Shakeel Ahmad

Time Left

72

sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 09:29 AM, 14 August 2018

Question # 1 of 4 (Start time: 09:29:56 AM, 14 August 2018)

Total Marks: 1

Consider $\mathbb{R}$ with usual topology. Then $A = (0, 1) \cup (3, 5]$ is disconnected subset of $\mathbb{R}$.

Select the correct option

Reload Math Equations

True



False



Click to Save Answer & Move to Next Question



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MC170201745: Shakeel Ahmad

Time Left 78 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 09:29 AM, 14 August 2018

Question # 4 of 4 (Start time: 09:32:30 AM, 14 August 2018)

Total Marks: 1

An open interval in

 $\mathbb{R}$

with usual topology is not compact.

Select the correct option

Reload Math Equations

True



False



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MC170202458: Aneeta Shaheen

Time Left 81 sec(s) 

MTH634:Quiz No. 2

Quiz Start Time: 10:54 AM, 14 August 2018

Question # 2 of 4 (Start time: 10:54:27 AM, 14 August 2018)

Total Marks: 1

Consider $\mathbb{R}$ with usual topology. There exists no homomorphism between an open interval of $\mathbb{R}$ and a closed interval of $\mathbb{R}$.

Select the correct option

 Reload Math Equations

True



False

[Click to Save Answer & Move to Next Question](#)

Which of the following statement is false?

Select the correct option



Every metric space is second countable.



Every metric space is Hausdorff space.



Every metric space is normal space.



none

Click to Save Answer & Move to Next Question

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MC170202458: Aneeta Shaheen

Time Left 76 sec(s) 

MTH634:Quiz No. 2

Quiz Start Time: 10:54 AM, 14 August 2018

Question # 3 of 4 (Start time: 10:55:29 AM, 14 August 2018)

Total Marks: 1

Every compact subspace of a Hausdorff space is not closed.

Select the correct option



True



False

[Click to Save Answer & Move to Next Question](#)



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MC170201745: Shakeel Ahmad

Time Left

78

sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 09:29 AM, 14 August 2018

Question # 4 of 4 (Start time: 09:32:30 AM, 14 August 2018)

Total Marks: 1

An open interval in

 $\mathbb{R}$

with usual topology is not compact.

Select the correct option

Reload Math Equations

True



False



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MC170201907: Nadia Sadaf

MTH634:Quiz No. 2

Quiz Start Time: 12

Question # 2 of 4 (Start time: 12:44:39 PM, 14 August 2018)

All the metric spaces are not normal spaces.

Select the correct option



True



False

Click to Save Answer & Move

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MC170201907: Nadia Sadaf

Time Left 85 sec(s) 

MTH634:Quiz No. 2

Quiz Start Time: 12:44 PM, 14 August 2018

Question # 3 of 4 (Start time: 12:46:43 PM, 14 August 2018)

Total Marks: 1

$\mathbb{R}$ with usual topology is a T_4 - space.

Select the correct option

 Reload Math Equations

☒	True
☐	False

Click to Save Answer & Move to Next Question

MC170201907: Nadia Sadaf

Time Left 60 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 12:44 PM, 14 August 2018

Question # 4 of 4 (Start time: 12:47:06 PM, 14 August 2018)

Total Marks: 1

Which of the following statement is true?

Select the correct option

Reload Math Equations

☐	$\mathbb{R}$ with usual topology is compact.
☒	$\mathbb{R}$ with indiscrete topology is compact.
☐	$\mathbb{R}$ with discrete topology is compact.
☐	$\mathbb{R}$ with cofinite topology is not compact.

Click to Save Answer & Move to Next Question


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MC170201907: Nadia Sadaf

Time Left 60
 sec(s)

MTH634:Quiz No. 2

Quiz Start Time: 12:44 PM, 14 August 2018

Question # 1 of 4 (Start time: 12:44:03 PM, 14 August 2018)

Total Marks: 1

A topological space X is called a connected space iff there exists a pair of subsets of X both nonempty and both open and closed.

Select the correct option


 Reload Math Equations

☐	True
☒	False

Click to Save Answer & Move to Next Question

Topology

MC 170201745

MCQs 30 Marks

- ① Define Open Ball
 - ② Show $(\mathbb{R}, \tau_n)$ is separable
 - ③ Define Separated Sets
 - ④ Give Two examples of Lindelöf Space
- } → 2 marks
- ⑤ Connected Component Module 175 Example 3 Marks
 - ⑥ Normal Space : Module 147 Example 5 Marks
 - ⑦ Show that Connected Component of X is closed subset 5 marks
 - ⑧ open Mapping Module 84 Example 5 Marks

MCBs

- ① If $A = \{y\}$ then derived Set will be $X \setminus \{y\}$
- ② $\bar{A} = A \cup A'$
- ③ Usual metric on $\mathbb{R}$ $d(x, y) = |x - y|$
- ④ Module 104 statement
- ⑤ Every Second Countable Space is First Countable
- ⑥ Subspace of separable space is separable
- ⑦ Every Discrete space is T_0, T_1