

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  $\omega$ -ordinate space is first countable.
- ④ Metrizable is a Countably productive Property.



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- To provide post graduate students with strong foundation in job research or to serve in the Society.
- 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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