

4. *Answer any three :* 20
- Prove that :
Continuous image of connected set is also connected.
 - State and prove : Intermediate-value theorem.
 - State and prove : Fixed-point theorem.
 - Prove that : The closure of a connected set is connected.

5. *Answer any three :* 20
- Prove that : Continuous image of a compact space is compact.
 - Prove that : If X and Y be compact topological spaces, then $X \times Y$ is also compact.
 - State and prove : LEIBNIZ'S THEOREM.
 - Prove that : If $f: X \rightarrow Y$ is uniformly continuous, then f is continuous.

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