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Semester - VI
Math

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Tuesday
June

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CORE-13. Metric spaces and complex analysis

Answer any three question :-

1. Definition and example of metric spaces?
2. Discuss Cantor's intersection theorem?
3. Derive Cauchy - Riemann equation?
4. Define - (a) Homeomorphism
(b) cross ratio

CORE-14 Linear Algebra

* Answer any three question :-

- Q1. Describe algebra of linear transformation
- Q2. Derive Cayley - Hamilton theorem?
- Q3. Define - a) Normal operators
b) self-adjoint operators
- Q4. Discuss vector spaces