

NOTE:-

Attempt all questions -

1. Prove that $K(T)$ is a submodule, when $T: M \rightarrow N$ be a module homomorphism.
2. A group G is abelian iff G' is commutator subgroup of G .
3. Define Artinian and Noetherian module.
4. Write the statement of Noether - Lasker theorem.
5. Prove that $G(K, t)$ is a subgroup of the group of automorphism of K .

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Note: Attempt all questions

1. Show that if E has outer measure zero then E is measurable.
2. If ϕ is a measurable simple function then $\int a\phi d\alpha = a \int \phi d\alpha$, where $a > 0$.
3. State and prove Lebesgue differentiation theorem.
4. State and prove Holder's inequality.
5. Define uniform convergence.

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PAPER - III

TOPOLOGY - II

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NOTE:- attempt all questions

1. Define T_1 space, with example
2. Define FIP (finite intersection property)
3. Write the statement of Tychonoff Theorem.
4. Define filters with example.
5. Define compactly and pseudocompactness.

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COMPLEX ANALYSIS - II

Note: attempt all questions -

1. Prove that $\overline{z+1} = \overline{z} + \overline{1}$
2. Write the statement of Runge's theorem.
3. Let $U: G \rightarrow \mathbb{R}$ be a continuous function which has mean value property then U is harmonic
4. State and prove Hadamard's three circle Theorem.
5. Define -
 - a) Bloch's constant
 - b) Landau's constant

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Note:

1. Write
2. Write in C
3. Write
4. Write
- 5.

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SIS - II

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PAPER - V

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PROGRAMMIN in C.

Note: attempt all questions.

1. Write about data types in C++ language.
2. Write about constructors available in C++ language.
3. Write the star program in C++ language.
4. Write the difference between call by value and call by Reference
5. Write about formatted file functions.

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