

PUNJAB PUBLIC SERVICE COMMISSION

COMBINED COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE
POSTS OF PROVINCIAL MANAGEMENT SERVICE, ETC - 2009

SUBJECT: MATHEMATICS (OPTIONAL)
PAPER-II

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

Attempt five questions. Choose two questions from each Section at least

Section A

1. Both the order and index of a subgroup of a finite group divide the order of the group. 20
2. If ϕ is a homomorphism of a group G into a group $\bar{G}$ then, 20
 - (1). $\phi(e) = \bar{e}$, the unit element of $\bar{G}$.
 - (2). $\phi(x^{-1}) = \phi(x)^{-1}$ for all $x \in G$.
3. If F is a field of real numbers, Prove that 20
 - $(1, 1, 0, 0)$, $(0, 1, -1, 0)$ and $(0, 0, 0, 3)$ in $F^{(4)}$ are linearly independent over F .

P.T.O.

Mathematics Paper 2009

M Lipman



Mathematics Paper 2009:

Enjoying the Tune of Term: An Mental Symphony within **Mathematics Paper 2009**

In a world used by displays and the ceaseless chatter of instant connection, the melodic splendor and emotional symphony created by the prepared word usually diminish into the back ground, eclipsed by the constant sound and interruptions that permeate our lives. But, located within the pages of **Mathematics Paper 2009** an enchanting fictional treasure overflowing with organic feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that fascinating masterpiece conducts viewers on an emotional journey, well unraveling the hidden tunes and profound influence resonating within each cautiously constructed phrase. Within the depths with this emotional evaluation, we will investigate the book is central harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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