

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.

Ksmaths Past Papers 2009

J Dewey



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