#### **PUNJAB PUBLIC SERVICE COMMISSION**

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

# SUBJECT: MATHEMATICS (OPTIONAL) PAPER-II

TIME ALL	OWED:	THREE	HOURS	

over F.

MAXIMUM MARKS: 100

Attempt five questions. Choose two questions from each Section at least Section A 1. Both the order and index of 20 a subgroup of a finite group divide the order of the group. 2. If \$ is a homomorphism of a group G into a group G then, (1)  $\phi(e) = e$ , the unit element of (2). \$(x') = \$(x5' for all x \in G. 3. If F is a field of real numbers, Prove that (1,1,0,0), (0,1,-1,0) and (0,0,0,3) in F43 are linearly independent

# **Ksmaths Past Papers 2009**

**Anthony S. Fauci** 

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