

KING SAUD UNIVERSITY

QUIZ 2

COLLEGE OF SCIENCE

NAME:

MATH343-14472

DEPARTMENT OF MATHEMATICS

STUDENT ID:

(1) Define the center of a group and show it is a subgroup.

(2) Determine if the groups $\mathbb{Z}_{24}$ and $U(24)$ are cyclic or not, and list all elements of order 6 in each.