

SCORE

/30

NAME:.....

1. An ID number consists of 1 letter, followed by 5 digits, of which the first is non-zero, and digits may be repeated, followed by 3 letters. How many different ID numbers are possible if

(i) letters may be repeated

(ii) letters may not be repeated

(iii) the letters are all consonants *and* may not be repeated.

2. A tennis league has 12 pairs. If every pair must play every other pair once in the first round of league play, how many games must be scheduled?

3. A group of twelve women and fifteen men must select a four-person committee. How many different committees are possible if it must consist of the following:

(i) Two women and two men

(ii) Any mixture of men and women

(iii) A majority of women