7 **(a)** A 6-digit number is to be formed using the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, 9. The 6-digit number cannot start with 0. Each digit can be used at most once in any 6-digit number. Find how many of these 6-digit numbers are divisible by 5. [3]

(b) The number of combinations of $(n+1)$ objects taken 13 at a time is equal to 16 times the number of combinations of n objects taken 12 at a time. Find the value of n. [3]

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