OPENER EXAMS **MATHEMATICS FORM FOUR TERM ONE 2025** TIME 1HOUR 30 MIN

ANSWER ALL QUESTIONS IN SECTION A AND THREE QUESTIONS IN SECTION B

3. A businessman deposited Ksh. 80,000 in a savings account at the beginning of the year, which pays 10.5% interest per annum compounded quarterly. Find the amount in the account at the beginning of 5th year.

10:570x1/4= 2.625% 5yearx = 20. 80000 (1+2.625)20 = 134,323.929

134,323.93 shillings

4. Two quantities Q and R are such that Q varies partly as R and partly varies as the square root of R. Determine the equation connecting Q and R given that Q = 500 when R = 16 and Q = 60

500 = 16mt + 40 300 = 20mt + 40 3200 = 100mt + 200 3200 = 100mt + 200 3500 = 20mt 3500 = 20mt

25 P - Transport of the state o