#### MATHEMATICS N2 CLASS EXERCISE 1

#### OUESTION 1

1.1 Solve the following equations:

1.1.1 = 
$$x^2 + 3x - 2 = 0$$
 by factorisation (3)

1.1.2 
$$6(2-m)-5(4-m)=7$$
 (3)

1.2 Given: the formula  $p = \sqrt[3]{r^2 - q^2}$ 

1.2.2 Calculate the value of 
$$r$$
 if  $p = 4$  and  $q = 6$  (1)

1.3 Solve for x and y in the following simultaneous equations:

$$5x = 6y + 3$$
 and  $3y - 4x + 1 = 0$  (4)

#### **OUESTION 2**

2.1 A man deducted 3 from 5 times his age and got his grandmother's age.

2.2 Given:  $4n^2 - 15n - 47 = 0$ 

2.3 Given:  $H = \frac{7.5U}{273 + V}$ 

(1)

2.3.2 Find the value of 
$$V'$$
 if  $U = 0.5$  and  $H = 0.005$ 

2.4 Given: 8p-1=-2q and 2p+3q=4Solve for p and q

Solve for 
$$p$$
 and  $q$  (4) [13]

#### TOTAL: 27 MARKS

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