

Duration: \_\_\_\_\_ 2 hour 30 min  
( 4 × 4 = 16 )

1. Solve the following simultaneous equation :

~~a)~~  $5x + 3y = 15$

$3y - x = 3$

~~b)~~  $5x - y = 2$

$4y^2 + 4xy - 4x^2 - 1 = 0$

~~c)~~  $2^x - 5^x = 3; 2^{x-3} = 21 - 5^{x-2}$

d)  $\log_2(x - 4y) = 4$  and  $\log_8 4x - \log_8(8y + 5) = 1$

2. Simplify each of the following without using calculator :

( 3 × 3 = 9 )

~~a)~~  $\frac{x^2 + 3\sqrt{x}}{4 - 2\sqrt{x}} + \frac{3 - \sqrt{x}}{4 - 2\sqrt{x}}$

b)  $\lg(3x + 2) - 2 \lg x = 1 - \lg(5x - 3)$

c)  $2 \log_2 \frac{2}{3} + \log_2 \frac{81}{8} - 2 \log_2 \frac{3}{4}$

3. The sum of first
- $n$
- terms of the A.P. 12,
- $13\frac{1}{2}$
- , 15, ... is the same as the sum of the first
- $n$
- terms of the A.P. 3, 7, 11, ... Calculate the value of
- $n$
- .
- 
- ( 5 )

4. a) Find in terms of
- $n$
- ,
- $\sum_{r=1}^n (5r - 2)$
- .

( 6 )

- b) Given that
- $\sum_{r=1}^n (5r - 2) = 648$
- , Find the value of
- $n$
- .

5. a) If
- $(x - 3)$
- is a factor of the expression
- $x^3 - x^2 + ax + 9$
- , find the value of
- $a$
- and hence, factorize completely.
- 
- ( 5 )

- b) The remainder of
- $x^4 + ax^3 + bx^2 + 6$
- , when it is divided by
- $(x - 1)$
- and
- $(x - 2)$
- , are 12 and 54 respectively. Find the values of
- $a$
- and
- $b$
- . Hence, find the remainder when the expression is divided by
- $x + 1$
- .
- 
- ( 6 )

6. Leo Ronald starts his new job on a salary of \$ 15000. He promised rises of \$1000 a year, at the end of every year, until he reaches his maximum salary of \$ 25000. Find his total earnings (since appointed) after A) 8 years with the firm and b) 14 years with the firm.
- 
- ( 6 )

7. Solve the equation
- $2x^3 + 11x^2 - 7x - 6 = 0$
- , giving the solutions to 2 decimal places where necessary. ( Must show all of your workings )
- 
- ( 4 )

8. Find the value of
- $k$
- for which
- $(x + 2)$
- is a factor of
- $(x + 1)^5 + (5x + k)^3$
- .
- 
- ( 3 )

- 9.
- $(x + 2)$
- is a factor of
- $f(x) = a(x - 1)^2 + b(x - 1) + c$
- . the remainder when
- $f(x)$
- is divided by
- $x + 1$
- and
- $x - 1$
- are -11 and 9 respectively. Find the values of
- $a$
- ,
- $b$
- and
- $c$
- .
- 
- ( 6 )

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**Kathleen Armour**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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