

ANSWER ALL THE QUESTIONS

(100 MARKS)

**QUESTION 1**

Choose the correct answer from the four possible answers supplied.  
Write down only the letter that denotes the correct answer.

1.1 The factorisation of  $x^2 + x - 6$  is:

- (a)  $(x - 2)(x + 3)$
- (b)  $(x - 2)(x - 3)$
- (c)  $(x - 1)(x + 6)$
- (d)  $(x + 1)(x - 6)$

(2)

1.2 The derivative of  $f(x) = 2e^{2x}$  is:

- (a)  $f'(x) = 2e^{2x}$
- (b)  $f'(x) = 4e^{2x}$
- (c)  $f'(x) = 2e^{2x+1}$
- (d)  $f'(x) = 4e^{2x+1}$

(2)

1.3 If  $y = \cos 5x$ , then  $\frac{dy}{dx} =$

- (a)  $-5\sin x$
- (b)  $-5\sin 4x$
- (c)  $-5\sin 5x$
- (d)  $-5\sin 6x$

(2)

1.4 The horizontal tangent that can be drawn to the graph of  $f(x) = 2x^2 + 2$  passes through the point ?

- (a)  $(0; 2)$
- (b)  $(2; 0)$
- (c)  $(2; 2)$
- (d)  $(0; 0)$

(2)

1.5  $\frac{\log_2 32 + \log_2 2}{\log_2 16 - \log_2 2} =$

- (a) 1
- (b) 2
- (c) 3
- (d) 4

(2)

[10]

**QUESTION 2**

2.1 Solve for  $x$ :

2.1.1  $3(x^2 - 4) = 0$

(2)

2.1.2  $3(2^{x+1}) = 24$

(4)

2.2 Solve for  $x$  if  $2\log_{12}(2x + 1) = 24$

(4)

[10]

# N4 Questions Papers Mathematics

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