

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]

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