

## Grade 12 Mathematics: Question Paper 1

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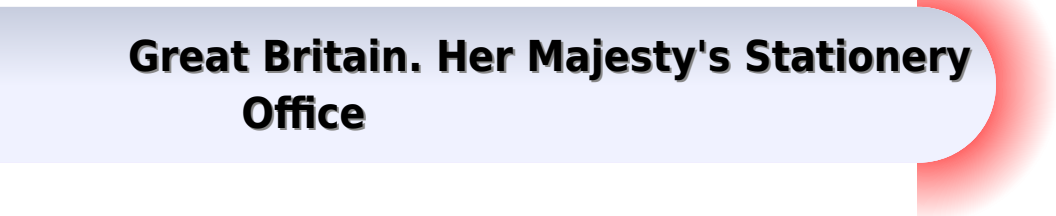
TIME: 3 hours

## QUESTION 5

- 5.1 Write down:
- 5.1.1  $\log_2 4 = 2$  (1)
  - 5.1.2  $\log_2 16 = 4$  (1)
  - 5.1.3  $2^{\log_2 16} = 16$  (1)
- 5.2 Determine the value of the following expressions:  $\sum_{n=1}^5 2n$  (2)
- 5.3 The area of a triangle is given by  $A_n = \frac{n(n+1)}{2}$  find  $A_5$  (1)
- 5.4 Determine the 7<sup>th</sup> term of the following sequence:  $49, \frac{9}{11}, \frac{16}{121}, \frac{27}{1331}$  (2)
- 5.5 If inflation is expected to be 8.7% per annum for the next 10 years, starting which year will prices be double what they are today? (1)
- 5.6 Given that  $f(x) = 4x$ , sketch  $g(x) = x^2 + x^2 - 4x$  on axes. (1)
- 5.7 Given  $f(x) = \frac{1}{x+2}$
- 5.7.1 Determine the equation of the vertical asymptote of  $f(x)$ . (1)
  - 5.7.2 Determine the x-intercept of  $f(x)$ . (1)
  - 5.7.3 Determine  $x$  if  $f(x) = -4$ . (2)
  - 5.7.4 Determine the equation of one of the axes of symmetry of  $f(x)$ . (1)
- 5.8 The inverse of a function is  $x^{1/2} + 3$ ,  $x \in \mathbb{R}$ , what is the function  $f(x)$ ? (1)
- 5.9 Sketch of the following functions describe intervals using the interval notation
- 5.9.1  $y = \log_2 x$  (1)
  - 5.9.2  $y = 10^x$  (1)
  - 5.9.3  $y = \frac{100}{x}$  (1)
- 5.10 Determine a function  $f(x)$  such that  $f'(x) = 4x^2$  (1)
- 5.11 A car travelled for 1 hour. The average speed for the first 15 minutes was 60 km/h and for the remaining 45 minutes the average speed was 80 km/h. How far did the car travel? (2)

# Grade 12 Mathematics Question Paper Memorandum

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